

STIC-Biot ch/Ch mLib

92268

From: Li, Ruixiang
Sent: Wednesday, April 23, 2003 6:16 PM
To: STIC-Biotech/ChemLib
Subject: Sequence search of Application NO: 09/898,586

Please do a standard search on SEQ ID NO: 23 against commercial nucleic acid databases.

Thank you very much!

Ruixiang Li
GAU 1646
CM1 10E18
Mail Box 10D19
306-0282

Point of Contact:
Toby Port
Technical Info. Specialist
CM1 6A04
703-308-2634

Searcher: _____
Phone: _____
Location: _____
Date Picked Up: 4/24
Date Completed: 5/2
Searcher Prep/Review: _____
Clerical: _____
Online time: _____

TYPE OF SEARCH:
NA Sequences: _____
AA Sequences: _____
Structures: _____
Bibliographic: _____
Litigation: _____
Full text: _____
Patent Family: _____
Other: _____

VENDOR/COST (where applic.)
STN: _____
DIALOG: _____
Questel/Orbit: _____
DRLink: _____
Lexis/Nexis: _____
Sequence Sys.: _____
WWW/Internet: _____
Other (specify): _____



GenCore version 5.1.4_p5_4578
Copyright (c) 1993 - 2003 Compugen Ltd.

nucleic - nucleic search, using sw model

May 2, 2003, 03:54:25 : Search time 279 Seconds
(w/out alignments)
8184.682 Million cell updates/sec

score: 1014

US-09-898-586-23

taaacacttctccctaaca,.....tatggcattgtactgacaa 1014

IDENTITY_NJIC
Gapov 10.0 , Gapext 1.0

2185239 seqs, 1125999159 residues

number of hits satisfying chosen parameters: 4370478

Maximum Match 100%
length: 200000000

processing: Minimum Match 100%
listing first 45 summaries

N_Geneseq_101002: *

1: /SIDS2/gcdata/geneseq/geneseq-emb1/NA1980.DAT:*

2: /SIDS2/gcdata/geneseq/geneseq-emb1/NA1981.DAT:*

3: /SIDS2/gcdata/geneseq/geneseq-emb1/NA1982.DAT:*

4: /SIDS2/gcdata/geneseq/geneseq-emb1/NA1983.DAT:*

5: /SIDS2/gcdata/geneseq/geneseq-emb1/NA1984.DAT:*

6: /SIDS2/gcdata/geneseq/geneseq-emb1/NA1985.DAT:*

7: /SIDS2/gcdata/geneseq/geneseq-emb1/NA1986.DAT:*

8: /SIDS2/gcdata/geneseq/geneseq-emb1/NA1987.DAT:*

9: /SIDS2/gcdata/geneseq/geneseq-emb1/NA1988.DAT:*

10: /SIDS2/gcdata/geneseq/geneseq-emb1/NA1989.DAT:*

11: /SIDS2/gcdata/geneseq/geneseq-emb1/NA1990.DAT:*

12: /SIDS2/gcdata/geneseq/geneseq-emb1/NA1991.DAT:*

13: /SIDS2/gcdata/geneseq/geneseq-emb1/NA1992.DAT:*

14: /SIDS2/gcdata/geneseq/geneseq-emb1/NA1993.DAT:*

15: /SIDS2/gcdata/geneseq/geneseq-emb1/NA1994.DAT:*

16: /SIDS2/gcdata/geneseq/geneseq-emb1/NA1995.DAT:*

17: /SIDS2/gcdata/geneseq/geneseq-emb1/NA1996.DAT:*

18: /SIDS2/gcdata/geneseq/geneseq-emb1/NA1997.DAT:*

19: /SIDS2/gcdata/geneseq/geneseq-emb1/NA1998.DAT:*

20: /SIDS2/gcdata/geneseq/geneseq-emb1/NA1999.DAT:*

21: /SIDS2/gcdata/geneseq/geneseq-emb1/NA2000.DAT:*

22: /SIDS2/gcdata/geneseq/geneseq-emb1/NA2001A.DAT:*

23: /SIDS2/gcdata/geneseq/geneseq-emb1/NA2001B.DAT:*

24: /SIDS2/gcdata/geneseq/geneseq-emb1/NA2002.DAT:*

RESULT 1
AAS09956
ID AAS09956 standard: DNA: 1014 BP.
XX
AC AAS09956;
XX
DT 24-OCT-2001 (first entry)
XX
DE DNA encoding human odorant receptor (OR)-like protein, NOV12.
XX
KW Odorant receptor; human; OR; NOV12; therapeutic; neuro-olfactory system;
trauma; surgery; neoplastic disorder; gene therapy; adenocarcinoma;
lymphoma; prostate cancer; uterus cancer; immune response; asthma; AIDS;
acquired immunodeficiency syndrome; Crohn's disease; multiple sclerosis;
Albright hereditary osteodystrophy; diagnostic; ds.
XX
OS Homo sapiens.

xx
 13-JAN-2000; 2000US-0175989.
 PR 14-JAN-2000; 2000US-0176134.
 PR 25-JAN-2000; 2000US-0177839.
 PR 26-JAN-2000; 2000US-0178191.
 PR 14-JUL-2000; 2000US-0218324.
 PR 24-JUL-2000; 2000US-0220253.
 PR 25-JUL-2000; 2000US-0220590.
 xx
 PA (CURA-) CURAGEN CORP.
 xx
 PI Padigaru M, Prayaga SK, Taupier RJ, Mishra V, Tchernev VT;
 PI Spytek KA, Li L;
 xx
 WPI: 2001-451859-48.
 DR PSDB; AAU05142.

xx
 PT New NOVx polypeptides and polynucleotides, useful for treating or preventing disorders of the neuro-olfactory system, cancer and multiple sclerosis -
 PT
 XX
 PS Claim 9: Page 5; 141PP; English.

xx
 CC The sequence represents the coding sequence of human odorant receptor (OR)-like protein, NOV12. The NOV12 polypeptide, nucleic acid and antibody are useful as therapeutics, particularly in the manufacture of a medicament for treating a syndrome associated with a human disease, which includes a pathology associated with NOV12 polypeptide. The NOV12 nucleic acid and polypeptide are especially useful in therapeutic or prophylactic applications for disorders of the neuro-olfactory system, e.g., those induced by trauma, surgery and/or neoplastic disorders. The DNA encoding the protein is useful in gene therapy for treating the above conditions. Furthermore, the nucleic acids and polypeptides are useful in treating adenocarcinoma, lymphoma, prostate cancer, uterus cancer, immune response, acquired immunodeficiency syndrome (AIDS), asthma, Crohn's disease, multiple sclerosis or Albright hereditary osteodystrophy. These are also useful in developing powerful assay system for functional analysis of various human disorders, as well as in diagnostic applications.
 CC
 XX
 SQ Sequence 1014 BP; 219 A; 281 C; 216 G; 298 T; 0 other;

Query Match 97.7%; Score 991; DB 22; Length 1014;
 Best Local Similarity 99.8%; Pred No. 4 3e-287; Matches 1013; Conservative 0; Mismatches 0; Indels 2; Gaps 2;

QY 1 TAACACACTCTCTAACCATCAGCAATGATTGATTTCCCTCTGCATAGGATATGGG 60
 Db 1 TAACACACTCTCTAACCATCAGCAATGATTGATTTCCCTCTGCATAGGATATGGG 60
 QY 61 GACNATATACATCACACAGTCTCTCTTACTGGATTTCAGGTTCCACCCAGATT 120
 Db 61 GACNATATACATCACACAGTCTCTCTTACTGGATTTCAGGTTCCACCCAGATT 120
 QY 121 CAGATGCTCCCTTGGCTCTCCCTGTCTAGCTCTCACCTGTGCGGGACGG 180
 Db 121 CAGATGCTCCCTTGGCTCTCCCTGTCTAGCTCTCACCTGTGCGGGACGG 180
 QY 181 ACCATACGGGTCATCTCAGTGACTCCAGACTGCCACGCCCATGTRACTCTTC 239
 Db 181 ACCATACGGGTCATCTCAGTGACTCCAGACTGCCACGCCCATGTRACTCTTC 240
 QY 240 TCACACCTGGGTCGTGACATCGCCATGCCGACACGGTCCCCGATGCTGGTC 299
 Db 241 TCACACCTGGGTCGTGACATCGCCATGCCGACACGGTCCCCGATGCTGGTC 300
 QY 300 AACCTCCGCACTCGGCAAGCCATCTCCTTGGGCCCATGATGAGACCTTCTG 359
 Db 301 AACCTCCGCACTCGGCAAGCCATCTCCTTGGGCCCATGATGAGACCTTCTG 360
 QY 360 TTTCGCAATTGCTGTCACGAATGCTCTCTCTGCTGAGATCTCTATGACTGTC 419

Db 361 TTTCCACTTGTGTCACAGAATGTCCTCTGGTGTATGTCATGTC 420
 QY 420 GTGGCCATCTGCCACCCCCCTCGATATTGGCCATCATGACCTGGAGTCATCAC 479
 Db 421 CGGCCATCTGCCACCCCCCTCGATATTGGCCATCATGACCTGGAGTCATCAC 480
 QY 480 CGCGGGTATTCGGGACACTGAGCTGCTTATCTTGATTCATCTGGTACTT 539
 Db 481 CGCGGGTACGTTCCGGGACACTGAGCTGCTTATCTTGATTCATCTGGTACTT 540
 QY 540 CPACCTTACCTCTGGTGGCCGAGAAATTATCATCTTGTGGAATCTGGC 599
 Db 541 CTAACCTTACCTCTGGTGGCCGAGAAATTATCATCTTGTGGAATCTGGC 599
 QY 600 TGTCACAATGCTGCTGAGATACCACATGAGAACATGGAAAGCCCTGCTTC 659
 Db 600 TGTCACAATGCTGCTGAGATACCACATGAGAACATGGAAAGCCCTGCTTC 659
 QY 720 TGTATCTTCAGATCAACAGGAAAGTCACAGGATCTGCTTC 779
 Db 720 TGTATCTTCAGATCAACAGGAAAGTCACAGGATCTGCTTC 779
 QY 780 CCACCTGTGATGGACTCTTATGACCCATATGATGTTGGACCCAG 839
 Db 780 CCACCTGTGATGGACTCTTATGACCCATATGATGTTGGACCCAG 839
 QY 840 ATATGGGACCCAGGCGAGAATCTCTGCTGTTACACCTCTTAATTC 899
 Db 840 ATATGGGACCCAGGCGAGAATCTCTGCTGTTACACCTCTTAATTC 899
 QY 900 CATGCAATCCCTATGCTGATGTTGGACAGCAGAGTGAAGATACTTGAGAG 959
 Db 900 CATGCAATCCCTATGCTGATGTTGGACAGCAGAGTGAAGATACTTGAGAG 959
 QY 960 AGTGCTGGAGTAGAAGGCTTTAGAAGGATATGCTGATGACTGAA 1014
 Db 960 AGTGCTGGAGTAGAAGGCTTTAGAAGGATATGCTGATGACTGAA 1014

Db AS0995 RESULT 2
 ID AS0995 standard; DNA: 1012 BP.
 XX
 AC AS0995;
 XX
 DT 24-OCT-2001 (first entry)
 XX
 DE DNA encoding human odorant receptor (OR)-like protein, NOV11.
 XX
 Odorant receptor; human; OR; NOV11; therapeutic; neuro-olfactory system; KW trauma; surgery; neoplastic disorder; gene therapy; adenocarcinoma; KW lymphoma; prostate cancer; uterus cancer; immune response; asthma; AIDS; KW acquired immunodeficiency syndrome; Crohn's disease; multiple sclerosis; KW Albright hereditary osteodystrophy; diagnostic; ds.
 XX
 OS Homo sapiens.
 XX
 FH Key/
 FT 5'UTR 1..53
 FT /*tag= a
 FT CDS 54..986
 FT /*tag= b
 FT /product= "odorant receptor-like protein, NOV11"
 FT 3' UTR 987..1012
 FT /*tag= c
 PD 19-JUL-2001.

PD WO200151632-A2.

XX	16-JAN-2001; 2001WO-US051513.	QY	361 TTCCACTTGTGTCACAGAATCTCCTCCCTGGTGAATGTCATGTCAG 420
XX	13-JAN-2000; 2000US-0175989.	Db	361 TTCCACTTGTGTCACAGAATCTCCTCCCTGGTGAATGTCATGTCAG
PR	14-JAN-2000; 2000US-0176134.	OY	421 TGGCCATCTGCCACCCCTCGATTTGGCCATCATGACCCTGGAGAGTCGCAACCC 480
PR	25-JAN-2000; 2000US-0177839.	Db	421 TGGCCATCTGCCACCCCTCGATTTGGCCATCATGACCCTGGAGAGTCGCAACCC 480
PR	26-JAN-2000; 2000US-0178191.	OY	481 TGCGGTGACTTCCTGACCACTSGAGTCCTTATCTTGATTCATCTGTGTAETC 540
PR	26-JAN-2000; 2000US-0178227.	Db	481 TCGGGTGAATCTGGACACTGGAGTCCTTATCTTGATTCATCTGTGTAETC 540
PR	14-JUL-2000; 2000US-0218324.	OY	481 TCGGGTGAATCTGGACACTGGAGTCCTTATCTTGATTCATCTGTGTAETC 540
PR	24-JUL-2000; 2000US-0220253.	Db	481 TCGGGTGAATCTGGACACTGGAGTCCTTATCTTGATTCATCTGTGTAETC 540
PR	25-JUL-2000; 2000US-0220590.	OY	541 TACCTTACCCCTGCTAGGCCCGCAGAAATTATCACTTTTGTGAATCTGGCT 600
PA	(CURA-) CURAGEN CORP.	Db	541 TACCTTACCCCTGCTAGGCCCGCAGAAATTATCACTTTTGTGAATCTGGCT 600
PA	Padigaru M, Prayaga SK, Taupier RJ, Mishra V, Tchernev VT;	OY	601 GTCCTCAACCTGCGTGGAGATACCCACATCATGAGAACATGGCTGGCGAGCA 659
PA	Spytek KA, Li L;	Db	600 GTHTCACAATCTGCCTGCGTGGAGATACCCACATCATGAGAACATGGCTGGCGAGCA 659
PA	WPI; 2001-451859/48.	OY	661 ATTCTGGCTGGGACCCCTGTCACAGATCCACATCATGAGAACATGGCTGGCGAGCA 660
PA	P-PSDB; AAU05141.	Db	661 ATTCTGGCTGGGACCCCTGTCACAGATCCACATCATGAGAACATGGCTGGCGAGCA 660
XX	New NOVX polypeptides and polyribonucleotides, useful for treating or preventing disorders of the neuro-olfactory system, cancer and multiple sclerosis -	OY	721 GCTATCCCTTCAAGATCCAATGAGGAAGTTAGAGGAAGCCCTTCACCGCTTC 780
CC	The sequence represents the coding sequence of human odorant receptor (OR)-like protein, NOV1. The NOV1 polypeptide, nucleic acid and antibody are useful as therapeutics, particularly in the manufacture of a medicament for treating a syndrome associated with a human disease, which includes a pathology associated with NOV1 polypeptide. The NOV1 nucleic acid and polypeptide are especially useful in therapeutic or prophylactic applications for disorders of the neuro-olfactory system, e.g. those induced by trauma, surgery and/or neoplastic disorders. The DNA encoding the protein is useful in gene therapy for treating the above conditions. Furthermore, the nucleic acids and polypeptides are useful in treating adenocarcinoma, lymphoma, prostate cancer, uterus cancer, immune response, acquired immunodeficiency syndrome (AIDS), asthma, Crohn's disease, osteodystrophy. These are also useful in developing powerful assay system for functional analysis of various human disorders, as well as in diagnostic applications.	Db	720 GCTATCCCTTCAAGATCCAATGAGGAAGTTAGAGGAAGCCCTTCACCGCTTC 779
CC	Sequence 1012 BP; 219 A; 281 C; 215 G; 297 T; 0 other;	OY	781 CACCTCTGTTGATGGACTCTTATGGCACAGCCATTATCGTAGTGTGACCCAGA 840
CC	Best Local Similarity 97.4%; Score 987.4; DB 22; Length 1012; Matches 1010; Conservative 0; Mismatches 1; Indels 2; Gaps 2;	Db	780 CACCTCTGTTGATGGACTCTTATGGCACAGCCATTATCGTAGTGTGACCCAGA 839
QY	2 AACACTCTCTTAAACATGAGCAATACTGATGTTCTCTGCTCATAGGGATGGG 61	OY	841 TATGGGACCCAAAGGAGGAGAAATCTCTGCTGCTGCTCACAGCCATTATCC 900
Db	1 AACACTCTCTTAAACATGAGCAATACTGATGTTCTCTGCTGCTGCTGCTGCTG 60	Db	840 TATGGGACCCAAAGGAGAAATCTCTGCTGCTGCTCACAGCCATTATCC 899
QY	62 AACATATACTTACATCACAGAGTCTCTTACGGATTCTGGGATTCTGGCAAGGGT 121	OY	901 ATGCTCAATCCCTATCTGCTAGCTTACGAACTCAGAGTAACTTGAGAGA 960
Db	61 AACATATACTTACATCACAGAGTCTCTTACGGATTCTGGCAAGGGT 120	Db	900 ATGCTCAATCCCTATCTGCTAGCTTACGAACTCAGAGTAACTTGAGAGA 959
QY	122 AGATGCTCTTGTGGCTCTCTCTCTCTGCTCTGCTCTGCTCTGCTCTGCTCTG 181	OY	961 GTCCTGGGAGTAAAGGGCTTATGAAAGGATTATGGCATGTGACTGACA 1013
Db	121 AGATGCTCTTGTGGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTG 180	Db	960 GTCCTGGGAGTAAAGGGCTTATGAAAGGATTATGGCATGTGACTGACA 1012
QY	182 CCATACGGGCATCTCACTGAGCTCCAGACTCAGCCCGC-TGTACTCTCTCT 240	RESULT 3	AAS0945
Db	181 CCATACGGGCATCTCACTGAGCTCCAGACTCAGCCCGC-TGTACTCTCTCT 240	ID	AAS0945 standard; DNA; 1040 BP.
QY	241 CACACTCTGGCTCGTGCAGACTCGCTACCGCTCTGCAACAGGTTGCCCGGATGGTGA 300	XX	AAS0946
Db	241 CACACTCTGGCTCGTGCAGACTCGCTACCGCTCTGCAACAGGTTGCCCGGATGGTGA 300	XX	24-OCT-2001 (first entry)
QY	301 ACCCTCTGCTCAGCCAGGCCATCTCTCTGCGGGCGCAGATGGAGCTTGTG 360	XX	DNA encoding human odorant receptor (OR)-like protein, NOV2.
Db	301 ACCCTCTGCTCAGCCAGGCCATCTCTCTGCGGGCGCAGATGGAGCTTGTG 360	XX	Odorant receptor; human; OR; NOV2; therapeutic; neuro-olfactory system; trauma; surgery; neoplastic disorder; gene therapy; adenocarcinoma; lymphoma; prostate cancer; immune response; asthma; AIDS; acquired immunodeficiency syndrome; Crohn's disease; multiple sclerosis; Albright hereditary osteodystrophy; diagnostic; ds.
QY	301 ACCCTCTGCTCAGCCAGGCCATCTCTCTGCGGGCGCAGATGGAGCTTGTG 360	XX	Homo sapiens.
QY	301 ACCCTCTGCTCAGCCAGGCCATCTCTCTGCGGGCGCAGATGGAGCTTGTG 360	OS	
KEY	Location/Qualifiers	FH	1..81
5'UTR		FT	/tag= a
CDS		FT	82..1014
3'UTR		FT	/*tag= b
		FT	/product= "Odorant receptor-like protein, NOV2"
		FT	1015..1040
		FT	
		XX	

XX	19-JUL-2001.	Db	328 AACCTCCATCCAGGCCATCTCCATTGGGGCGCATGATGCCAGACCTTCTG
PD	2001NO-0501513.	OY	360 TTTCACATTTCGTCGACAGAAGTCCTCCGTTGTTGATGTCATATCAGTC
XX	16-JAN-2001; 2001NO-0501513.	Db	388 TTTCACATTTCGTCGACAGAAGTCCTCCGTTGTTGATGTCATATCAGTC
PR	13-JAN-2000; 2000NS-0175989.	OY	420 GTGCCACTGCCCACCCCTCGATATTGCCATCATACCTTGAGATGTCAC
PR	14-JAN-2000; 2000NS-0176134.	Db	448 GTGCCATCTGCCACCCCTCGATATTGCCATCATACCTTGAGATGTCAC
PR	25-JAN-2000; 2000NS-0177839.	OY	480 CTGGGGGACTCTGGACACTTGAGCTTGACACTGGAGTCTTGTGTTACT
PR	26-JAN-2000; 2000NS-0178191.	Db	508 CTCCGGGACTCTGGACACTTGAGCTTGACACTGGAGTCTTGTGTTACT
PR	14-JUL-2000; 2000NS-0218324.	OY	540 CTACGTTAACCTCTGAGGCCAGAAATTATCACTTTTTGGAATCTGG
PR	24-JUL-2000; 2000NS-0220253.	Db	568 CTACGTTAACCTCTGAGGCCAGAAATTATCACTTTTTGGAATCTGG
PR	25-JUL-2000; 2000NS-0220590.	OY	587 AATTCTGGCTGGGACCTTGAGCTTATCCGATGCACTTGTTGAACTCTGG
PA	(CURA-) CURAGEN CORP.	Db	600 TGTCTCAAATGCGCTGTGAGATACCACAGATGAGACATGGCTTGCCGAG
PI	Padgaru M, Prayaga SK, Taupier RJ, Mishra V, Tchernov VT;	OY	627 TGTCTCAAATGCGCTGTGAGATACCACAGATGAGACATGGCTTGCCGAG
SPYTER KA, LI L;		Db	640 AATTCTGGCTGGGACCTTGAGCTTATCCGATGCACTTGTTGAACTCTGG
KX		OY	667 ATTCCTGGCTGGGACCCATGTCACATGAGATGAGAAATTAATTCAC-TT
DR	WPI: 2001-451859/4B.	Db	687 CCACTCTGAGTCATCCATAGGGAGTCAGGGAAAGCCATGAGCTTC
DR	P-PSDB; AU05132.	OY	700 TGCTATCCATGATGCACTGGAGATACCCATGAGACATGGCTTGCCGAG
XX	New NOVX polypeptides and polynucleotides, useful for treating or preventing disorders of the neuro-olfactory system, cancer and multiple sclerosis -	Db	720 TGCTATCCATGATGCACTGGAGATACCCATGAGACATGGCTTGCCGAG
PS	claim 9; Page 15; 141pp; English.	OY	747 TGCTATCCATGAGATCAGGGAGTCAGGGAAAGCCATGAGCTTC
CC	The sequence represents the coding sequence of human odorant receptor (OR)-like protein, NOV2. The NOV2 polypeptide, nucleic acid and antibody are useful as therapeutics, particularly in the manufacture of a medicament for treating a syndrome associated with a human disease, which includes a pathology associated with NOV2 polypeptide. The NOVX nucleic acid and polypeptide are especially useful in therapeutic or prophylactic applications for disorders of the neuro-olfactory system, e.g., those induced by trauma, surgery and/or neoplastic disorders. The DNA encoding the protein is useful in gene therapy for treating the above conditions. Furthermore, the nucleic acids and polypeptides are useful in treating adenocarcinoma, lymphoma, prostate cancer, uterus cancer, immune response, acquired immunodeficiency syndrome (AIDS), asthma, Crohn's disease, multiple sclerosis or Albright hereditary osteodystrophy. These are also useful in developing powerful assay system for functional analysis of various human disorders, as well as in diagnostic applications.	Db	760 CCACCTCTGAGTCATGGGACCTTGAGCTTGAGCTTGACCTGCTTC
CC	Sequence 1040 BP; 229 A; 285 C; 221 G; 305 T; 0 other;	OY	780 CCACCTCTGAGTCATGGGACCTTGAGCTTGAGCTTGACCTGCTTC
SQ	Query Match 97.0%; Score 983.6; DB 22; Length 1040; Best Local Similarity 99.4%; Pred. No. 7.3e-285; Matches 1008; Conservative 0; Mismatches 4; Index 2; Gaps 2;	Db	806 CCACCTCTGAGTCATGGGACCTTGAGCTTGAGCTTGACCTGCTTC
OY	1 TAACACTCTCTAACCATGAGCATTACTTGATTCCTCTGTCATAGGATATGGGG 60	OY	807 CCACCTCTGAGTCATGGGACCTTGAGCTTGAGCTTGACCTGCTTC
Db	28 TAACACTCTCTAACCATGAGCATTACTTGATTCCTCTGTCATAGGATATGGGG 87	Db	826 ATATGGGAACTCCCTATCTGTAGTTAGGACTCAGAAGTGTGAAAGTCTCCGTC
OY	61 GACAAATATACATCCATCACAGAGTTCTCTACTGGATTTCCGGTGGCCAGGAT 120	OY	840 ATATGGGAACTCCCTATCTGTAGTTAGGACTCAGAAGTGTGAAAGTCTCCGTC
Db	88 GACAATATACATCCATCACAGAGTTCTCTACTGGATTTCCGGTGGCCAGGAT 147	Db	867 ATATGGGAACTCCCTATCTGTAGTTAGGACTCAGAAGTGTGAAAGTCTCCGTC
OY	121 CAGAGCTCTCTTGGGGCTTCTCCCTGTCATCTGCACCCGGACGGG 180	OY	887 ATATGGGAACTCCCTATCTGTAGTTAGGACTCAGAAGTGTGAAAGTCTCCGTC
Db	148 CAGAGCTCTCTTGGGGCTTCTCCCTGTCATCTGCACCCGGACGGG 207	Db	900 CATGCTAAATCCCTATCTGTAGTTAGGACTCAGAAGTGTGAAAGTCTCCGTC
OY	181 ACCATAGGGGCTCATCTACTGGACTCAGACTGGACCCCTGTC 239	OY	927 CATGCTAAATCCCTATCTGTAGTTAGGACTCAGAAGTGTGAAAGTCTCCGTC
Db	208 ACCATAGGGGCTCATCTACTGGACTCAGACTGGACCCCTGTC 267	OY	946 AGTGCIGGGAGTAGAAGGGTTAAGAAGGATATGGCATTTGACTGACA 1013
OY	240 TCACACTGGGGCTCCACATGCCAACGGCTGCCCCGGATGCTGG 269	Db	987 AGTGCIGGGAGTAGAAGGGTTAAGAAGGATTTGACCATTTGACTGACA
Db	268 TCACACTGGGGCTCCACATGCCAACGGCTGCCCCGGATGCTGG 327		
OY	300 AACCTCTGATCCAGGCCATCTCTTGCGGCCAGCGATGAGACCTTCG 359		
XX		XX	

RESULT 4

ID ABA09073/C
ID ABA09073 standard; cDNA, 1315 BP.
XX ABA09073;
XX ABA09073;

AC DT 11-JAN-2002 (first entry)

DE Human olfactory receptor homologue-encoding cDNA, SEQ ID NO:849.

XX Human; cytokine; cell proliferation; cell differentiation; growth factor; haematoptosis regulation; tissue growth; immunomodulator; activin; inhibin; chemotaxis; chemokines; thrombolytic; oncogenesis; proliferation; metastasis; cancer; tumour; haemopoietic disorder; myeloid cell disorder; lymphoid cell disorder; asthma; arthritis; chronic inflammatory condition; proliferative retinopathy; atherosclerosis; coronary heart disease; arterial ischaemia; bone disorder; osteoporosis; vascular growth disorder; infection; immune disorder; tissue regeneration; wound healing; drug screening; gene therapy; antiinflammatory; cell culture; antiasthmatic; hemostatic; antiarrheisclerotic; antiasthmatic; antiarthritic; vasotropin; cardiotonic; virucide; antibacterial; cytotoxic; osteopathic; antifungal; vulnerary; antiulcer; ss. Homo sapiens.

PN WO200157188-A2.

XX 09-APR-2001.

PD XX 05-FEB-2001; 2001WO-US03800.

PF XX 03-FEB-2000; 2000US-0496914.

PR XX 27-APR-2000; 2000US-0560875.

XX PH (HYSEQ) HYSEQ INC.

XX PI Tang YT, Liu C, Drmanac RT;

XX DR P-PSDB; ABB11829.

PT XX Human proteins and DNA encoding sequences useful for preventing, treating or ameliorating a medical condition in a mammalian subject

e.g. arthritis and cancer.

PS Claim 1; Page 753; 1963pp; English.

CC Sequences ABB10981-ABB12330 represent 1350 novel human polypeptides, and CC sequences ABA0825-ABA0954 represent nucleic acids encoding them. The invention also relates to vectors and recombinant host cells comprising a nucleotide of the invention, methods of producing the novel polypeptides, antibodies against the polypeptides, methods of detecting the nucleotides or polypeptides in a sample, and methods of identifying compounds which bind to polypeptides of the invention. Although novel, many of the polypeptides of the invention have homology to known proteins, thereby giving an insight into their probable biological activities, and hence potential therapeutic applications. The polypeptides of the invention may have various activities, including cytokine, cell proliferation or cell differentiation activities; stem cell growth factor activity; hematopoiesis regulatory activity; tissue growth activity; immunomodulatory activity; activin- or inhibin related activities; chemotactic or chemokinetic activities; haemostatic, thrombotic or thromolytic activities; receptor or ligand activities; or may be involved in oncogenesis, cancer cell proliferation or metastasis.

CC Depending on their biological activities, polypeptides and nucleotides of the invention are useful for preventing, treating or ameliorating medical conditions, e.g., by protein or gene therapy. Such conditions include CC cancers, haematopoietic disorders (e.g. myeloid or lymphoid cell disorders), chronic inflammatory conditions (e.g. asthma or arthritis), CC proliferative retinopathy, atherosclerosis, coronary heart disease, arterial ischaemia, bone disorders (e.g., osteoporosis), and abnormal vascular growth. Polypeptides involved with tissue regeneration and repair (or nucleic acids encoding them) may be used to promote wound healing (e.g., of burns, incisions and ulcers), while those with immunomodulatory activities may be used in the treatment of viral, bacterial and fungal infections in addition to immune disorders.

CC Polypeptides with growth factor activity may be used in cell cultures to promote cell growth. For example, such polypeptides may be used to manipulate stem cells in culture to give rise to neuroepithelial cells that can be used to augment or replace cells damaged by illness, CC autoimmune disease or accidental damage. The polypeptides and nucleotides may also be used in the diagnosis of the above conditions, and in drug screening techniques. The present sequence represents a cDNA encoding a novel human polypeptide of the invention.

SQ Sequence 1315 BP; 380 A; 281 C; 360 G; 294 T; 0 other;

Query Match 92.9%; Score 942; DB 22; Length 1315; Best Local Similarity 99.6%; Pred No. 2.6e-272; Matches 986; Conservative 0; Mismatches 0; Indels 4; Gaps 4;

Oy 1 TAAACTCTCCCTAACCTGATGACCATTCAGTTCATGTTCTGTCATAGGATATGGGG 60

Db 989 TAACACTCTCCCTAACCTGATGACCATTCAGTTCATGTTCTGTCATAGGATATGGGG 930

Oy 61 GACAATATACTACATCATCACAGAGTCTCTACTGGATTCGGTCAAGGCAAGATT 120

Db 929 GACAATATACTACATCATCACAGAGTCTCTACTGGATTCGGTCAAGGCAAGATT 870

QY 121 CAGATGCCTCTTGACTCTTCCTGACTCTTCCTGACTCTTCACCTGTGGGAACGGG 180

Db 869 CAGATGCCTCTTGACTCTTCCTGACTCTTCACCTGTGGGAACGGG 810

QY 181 ACCATACTGGGTCACTTCACGGACTGCCAGACCGCCCT-GTACTTCCTTCCTC 239

Db 809 ACCATACTGGGTCACTTCACGGACTGCCAGACCGCCCT-GTACTTCCTC 750

QY 240 TCACACT-GGGCTCGGACATCGCTACCCCTGCACACAGGCCCCGAGATCTG 298

Db 749 TCACACTGGGCTCGGACATCGCTACCCCTGCACACAGGCCCCGAGATCTG 690

QY 299 GAACCTCTGCATCCAGGCAAGGCCATCTCCCTGGGGGCCATGAGACCTTC 358

Db 689 GAACCTCTGCATCCAGGCAAGGCCATCTCCCTGGGGGCCATGAGACCTTC 630

QY 359 GTTTCACCTTGCTGACAGATGCTCCCTGGGGATGTCATAGCTGTA 418

Db 629 GTTTCACCTTGCTGACAGATGCTCCCTGGGGATGTCATAGCTGTA 570

QY 419 CGT-GGCCAATGCTGACACCCCTCGATTTGCCATGACGATCTCCCTGGGGATGTCATAGCTGTA 510

Db 569 CGTGGCCTCTGCCACCCCTCGATTTGCCATGACGATCTCCCTGGGGATGTCATAGCTGTA 477

QY 478 CCTCTGGGTTGACTTCCGGGACTGGGACTGGGCTTATPCTTGATCATCTTGTTA 537

Db 509 CCCRGGGTGAATCTCCGGGACTGGGCTTATPCTTGATCATCTTGTTA 450

* QY 538 TTCTACCTTACCCCTGAGGCCAGAAATTATACITTTTGIGAATCTG 597

Db 449 TTCTACCTTACCCCTGAGGCCAGAAATTATACITTTTGIGAATCTG 391

QY 598 GCTGTCCTAACCTGCTGCGAGAPACCACATCATATGAGAACATGTTGCGCGA 657

Db 390 GCTGTCCTAACCTGCTGCGAGAACATGTTGCGCGA 331

QY 658 GCAATTCTGGGCTGGGACCTGTGCCACATGTTGATTCATATGTCATCC 717

Db 330 GCAATTCTGGGCTGGGACCTGTGCCACATGTTGATTCATATGTCATCC 271

QY 718 TGTGTCATCTTCAGATCATGAGGAGTCAGAGAAGGCTTCGACCTCTC 777

Db 270 TGTCATCTTCAGATCATGAGGAGTCAGAGAAGGCTTCGACCTCTC 211

QY 778 TCCGACCTCTGTTGATGACCTTTATGGCACAGCCATTATCATGATGTTGACCC 837

Db 210 TCCCACCTCTGTTGATGACCTTTATGGCACAGCCATTATCATGATGTTGACCC 151

QY 838 AGATGGGACCCAAAGGAGAGAAGAATCTCTGCTGTTACAGCCTTAA 897

Db 150 AGATGGGACCCAAAGGAGAGAAGAATCTCTGCTGTTACAGCCTTAA 91

QY 898 CCCATGCTAACTCCCTATCTGTTGACTGAGTGTAGAATCTG 957

Db 90 CCCATGCTAACTCCCTATCTGTTGACTGAGTGTAGAATCTG 31

QY 958 AGAGTGCTGGAGTAGAAGGGTTATGA 987

Db 30 AGAGTGCTGGAGTAGAAGGGTTATGA 1

RESULT 5

AAF5613 NAF5613 standard; cDNA; 974 BP.

ID XX AAF5613;

AC XX

DT XX 24-APR-2001 (first entry)

XX Human RECAP polynucleotide, SEQ ID NO: 41.

DE XX Human; RECAP; receptors and associated proteins; cerebroprotective;

KW nootropic; neuroprotective; anticonvulsant; antiparkinsonian; anti-HIV;
 KW antidiabetic; immunostimulant; immunomodulator; antiinflammatory;
 KW anti-hypothalamic; nephrotoxic; anticourot; thymoremic;
 KW cytostatic; antibacterial; virucide; fungicide; protozoicide;
 KW antiarteriosclerotic; hepatotoxic; gene therapy; infection; cancer; ss.
 KW Homo sapiens.
 PN WO200107612-A2.
 XX PD 01-FEB-2001.
 XX PPA 21-JUL-2000; 2000WO-US2003.
 XX PR 21-JUL-1999; 99US-0145232.
 PR 07-OCT-1999; 99US-0158578.
 PR 12-NOV-1999; 99US-0165192.
 XX (INCY -) INCYTE GENOMICS INC.
 XX Au-Yong J, Bandman O, Tang YT, Yue H, Azimzai Y, Burford N;
 PR Baughn MR, Lu DAM, Hillman JL, Patterson C, Lal P;
 XX WPI; 2001-16954/17.
 DR p-PSDB; AAB68889.

XN Novel receptors and associated proteins for diagnosis and treatment of neurological disorders, immunological disorders including autoimmune/inflammatory disorders and cell proliferative disorders such as cancer
 PT
 XX
 PS Claim 5; Page 125-126; 128pp; English.
 XX
 CC The present sequence encodes a human REGAP (receptors and associated proteins) polypeptide. REGAP polynucleotides and polypeptides are useful in the diagnosis, treatment and prevention of neurological disorders such as stroke, Alzheimer's disease, Pick's disease, Huntington's lateral sclerosis, multiple sclerosis, bacterial and viral meningitis, CJD (Creutzfeldt-Jakob disease), GSS (Gerrmann-Sträussler-Scheinker syndrome); immunological disorders, including autoimmune/inflammatory disorders such as AIDS, DiGeorge's syndrome, severe combined immunodeficiency disease (SCID), Chediak-Hirschli syndrome, Addison's disease, autoimmune thyroiditis, Crohn's disease, diabetes mellitus, Good pasture's syndrome, gout, Grave's disease, Hashimoto's thyroiditis, Sjögren's syndrome, Werner's syndrome, viral, bacterial, fungal, parasitic, protozoal, and helminthic infections; and cell proliferation disorders such as arteriosclerosis, atherosclerosis, cirrhosis, hepatitis and cancer.

XX Sequence 974 BP; 206 A; 270 C; 214 G; 284 T; 0 other;

SQ Query Match 92.3%; Score 936; DB 22; Length 974;
 Best Local Similarity 99.8%; Pred. No. 1.4e-270; Mismatches 0; Indels 2; Gaps 2;
 Matches 958; Conservative 99.8%;
 QY 55 ATGGGGACATAATACATCCATCACAGAGTCCTACTGGATTTCGGTGGCCA 114
 Db 1 ATGGGGACATAATACATCCATCACAGAGTCCTACTGGATTTCGGTGGCCA 60
 QY 115 AGGATCAGATGATGCCCTTCTGGCTTCCTCGTCAAGTCACCGCTGTGGG 174
 Db 61 AGGATCAGATGCCCTTCTGGCTTCCTCGTCAAGTCACCGCTGTGGG 120
 QY 175 AACGGGACATACCTGGGCTCACTGGACTCCAGACATCACGCCCG-TGAACTC 233
 Db 121 AACGGGACATACCTGGGCTCACTGGACTCCAGACATCACGCCCG-TGAACTC 180
 QY 234 TGCCTGACACCTGGCGTGGACATCGCTAACGGTGGCCGAG 293
 Db 181 TTCTCTCACCTGGCGTGGACATCGCTAACGGTGGCCGAG 240
 QY 294 CTGGTGAACTCCATGCCAACGCCATCTCCCTGGGGCCATATGAGACC 353

Db 241 CTGGTGAACTCCATGCCAACGCCATCTCCCTGGGGCCATATGAGACC 300
 QY 354 TTTCGTTTCACTTGTGTCAGAGATGTCCTCTGGGGCATGTCCTGGGGCATATGAT 413
 Db 301 TTTCGTTTCACTTGTGTCAGAGATGTCCTCTGGGGCATGTCCTGGGGCATATGAT 360
 QY 414 CTGAGTGGCCATCTGCCACCCCTCCGATATTGGCCATCATGACCTGGAGTCGC 473
 Db 361 CTGAGTGGCCATCTGCCACCCCTCCGATATTGGCCATCATGACCTGGAGTCGC 420
 QY 474 ATCACCTGGGTGACTCTGGGACACGGAGCTTATCTGATTCACCTGG 533
 Db 421 ATCACCTGGGTGACTCTGGGACACGGAGCTTATCTGATTCACCTGG 480
 QY 534 TTACTCTACCTTACCCCTGTAGGCCAGAATTATCATCTTCTTGTGAAT 593
 Db 481 TTACTCTACCTTACCCCTGTAGGCCAGAATTATCATCTTCTTGTGAAT 539
 QY 594 CTGGCTGTCACAATGCTGAGATCCAACTGGCAGATACCCATCATGAGAACATGGTCTGGC 653
 Db 540 CTGGCTGTCACAATGCTGAGATCCAACTGGCAGATACCCATCATGAGAACATGGTCTGGC 599
 QY 654 CGGACATTCCTGGGGTGGGACCCCTGTCACAAATGAGTAGTTCAATATGTGAT 713
 Db 600 CGGACATTCCTGGGGTGGGACCCCTGTCACAAATGAGTAGTTCAATATGTGAT 659
 QY 714 CCTCTGTCATACTGAGATCCAACTGGCAGATACCCATCATGAGAACATGGTCTGG 773
 Db 650 CCTCTGTCATACTGAGATCCAACTGGCAGATACCCATCATGAGAACATGGTCTGG 719
 QY 774 CTCTCCCACCTGTGATGGACTCTTATGGCACAGCCATTATGTGATGTGG 833
 Db 720 CTCTCCCACCTGTGATGGACTCTTATGGCACACCATPATCATGATGTGG 779
 QY 834 ACCCAGATATGGAAACCCAAAGGAGCAGAAATATTCCTCGTGTTCACGCTCT 893
 Db 780 ACCCAGATATGGAAACCCAAAGGAGCAGAAATATTCCTCGTGTTCACGCTCT 839
 QY 894 TAATGCCATGCTAAATCCCTATCTGAGTCTAGGACTCAGAGTGAAGATACTT 953
 Db 840 TAATCCATGCTAAATCCCTATCTGAGTCTAGGACTCAGAGTGAAGATACTT 899
 QY 954 GAAGAGTGGAGAGAAGGTTATGAAAGGATATTGGCATTGGTGAAGACA 1013
 Db 900 GAAGAGTGGAGAGAAGGCTTATGAAAGGATATTGGCATTGGTGAAGACA 959

RESULT 6
 ARH32365
 ID ARH32366 standard; DNA; 930 BP.
 AC ARH32366;
 XX DT 30-JUL-2001 (first entry)
 XX DE Human olfactory receptor polynucleotide, SEQ ID NO: 939.
 KW Human; olfactory receptor; OR; primary scent determination; secondary scent determination; polypeptide library; odour receptor; scent profile; scent fingerprint; scent representation; ds.
 KW Homo sapiens.
 XX OS WO200127158-A2.
 PR 06-OCT-2000; 2000WO-US27582.
 PR 08-OCT-1999; 99US-0158615.
 PR 24-FEB-2000; 2000US-0184809.

(DIGI-) DIGISCENTS.
PA (YEDA) YEDA RES & DEV CO LTD.
XX
PI Bellenson J, Smith D, Lancet D, Glusman G, Fuchs T, Yanai I;
XX DR WPI; 2001-290713/30.
XX New polynucleotides which encode polypeptides involved in olfactory PT sensation for identifying olfactory agonists and antagonists -
XX PS Claim 8; Page 554; 1857pp; English.
XX
The present sequence is one of a number of isolated polynucleotides which encode polypeptides involved in olfactory sensation. The polynucleotides can be used in screening for olfactory agonists and antagonists. The methods allow for the determination of primary scents and the identification of the odour receptors used to detect these primary scents. The methods also enable determination of secondary scents and the identification of combinations of odour receptors that are involved in detecting such secondary scents. This enables the construction of a scent representation (also called a scent fingerprint or scent profile), which may be used to re-create and edit scents. Libraries of olfactory receptors are useful for determining the interaction pattern of a composition with the receptors, and can be used for determining differences in the olfactory faculties of different individuals.
XX Sequence 930 BP; 192 A; 266 C; 201 G; 271 T; 0 other;
SQ Query Match best local similarity 99.7%; Score 905.4; DB 22; Length 930; Matches 928; Conservative 0; Mismatches 1; Indels 2; Gaps 2;
OY 55 ATGGGGACAAATAGATCCATCACAGAGTTCCTACTGGGATTCCGTGGCA 114
Db 1 ATGGGGACAAATAGATCCATCACAGAGTTCCTACTGGGATTCCGTGGCA 60
QY 115 AGGATCAGATGCTCCCTTGGGCCTTCACCCGTTCACTGCTTCACCGCTG 174
Db 61 AGGATCAGATGCTCCCTTGGGCCTTCACCCGTTCACTGCTTCACCGCTG 120
QY 175 AACGGACCATACTGGGCCATCTACTGGAATGAGCTGAGGGCCCA 114
Db 121 AACGGGACCATACTGGGCCTCATCTACTGGAATGAGCTGAGGGCCCA 60
QY 234 TTCTCTCACACCTGGGGCTCGACATCGCTAGGCCTAGCC 293
Db 181 TTCTCTCACACCTGGGGCTCGACATCGCTAGGCCTAGCC 240
QY 294 CTGGTGAACTCTCGCAACGCCAACCTCGCTCGGGCGCATGAGACC 353
Db 241 CTGGTGAACTCTCGCAACGCCAACCTCGCTCGGGCGCATGAGACC 300
QY 354 TTCTGTGTTCACCTTGTCTCACAGAATGCTCTCTGGTGTGATCTATG 413
Db 301 TTCTGTGTTCACCTTGTCTCACAGAATGCTCTCTGGTGTGATCTATG 360
QY 414 CTGGTGAACTCTCGCAACGCCAACCTCGCTCGGGCGCATGAGACC 473
Db 361 CTGGTGAACTCTCGCAACGCCAACCTCGCTCGGGCGCATGAGACC 420
QY 474 ATGACCCCTGGCGTGAATTCCTGGGACACTGGAGCTTATGTCATCTGG 533
Db 421 ATGCCCTGGCGTGAATTCCTGGGACACTGGAGCTTATGTCATCTGG 480
QY 534 TTAATCTACCTTACCCCTCTGTAAGGCCAGAAATTATCAGTTTGTGAAT 593
Db 481 TTACTTCACCTTACCCCTCTGTAAGGCCAGAAATTATCAGTTTGTGAAT 539
QY 594 CTGGGTCTTCACACTTGCCCTGTCAGATCCACATGAGAACCTGGCTTG 653
Db 540 CTGGGTCTTCACACTTGCCCTGTCAGATCCACATGAGAACCTGGCTTG 599

RESULT 7
ABK65141 ID ABK65141 standard; cDNA; 933 BP.
XX AC NM065141;
XX DT 02-JUL-2002 (first entry)
XX DE cDNA encoding human PHOR1-F5D6.
XX KW Human; PHOR1-A11; PHOR1-F5D6; prostate cancer; cytostatic; gene; ss.
XX OS Homo sapiens.
XX PN WO200214501-A2.
XX PD 21-FEB-2002.
XX PF 17-AUG-2001; 2001WO-US25862.
XX PR 17-AUG-2000; 2000US-226241P.
XX PA (AGEN-) AGENSYS INC.
XX PI Hubert RS, Raitano AB, Faris M, Challita-Eid PM, Ge W;
XX PI Jakobovits A;
XX DR WPI; 2002-269193/31.
XX P-PSDB; AAU01543.
XX Monitoring PHOR1-A11/PHOR1-F5D6 gene products for monitoring presence of cancer in subject, by determining status of PHOR1-A11/PHOR1-F5D6 gene products in tissue sample from subject and comparing it to normal sample -
XX PS Claim 43; Fig 2b; 250pp; English.
XX
The present invention relates to the isolation of novel human genes designated PHOR1-A11 and PHOR1-F5D6 and their encoded proteins. The gene encoding PHOR1-A11 maps to chromosome 1q23, and the gene encoding PHOR1-F5D6 maps to chromosome 7q33-q35. The PHOR1-A11 and PHOR1-F5D6 polynucleotide and polypeptide sequences are useful in diagnostic and therapeutic methods, and compositions for various cancers such as prostate cancer. The sequences are useful for inhibiting the growth of cancer cells that express PHOR1-A11 or PHOR1-F5D6 and for treating cancer. The PHOR1-A11 or PHOR1-F5D6 polypeptide or a fragment thereof can be used to elicit an immune response. The present sequence encodes human PHOR1-F5D6.

Page 8

QY	294	CTGGTGAACCTCCTGCATCCAGCAAGGCCATCTCGGCGCCATGATGACACC	353	XX	(DIGI-) DIGISCENTS.
Db	241	CTGGTGAACCTCCTGCATCCAGCAAGGCCATCTCGGCGCCATGATGACACC	300	PA	(YEDA) YEDA RES & DEV CO LTD.
QY	354	TTTCGTTTCCACTTGTGTCAGAGATGTCCTCCCTGCGATGTCCTGATGTC	413	PA	
Db	301	TTTCGTTTCCACTTGTGTCAGAGATGTCCTCCCTGCGATGTCCTGATGTC	360	XX	DR
QY	414	CTGTAAGTGCSCCATCTGCCGCCCTCGCATATWGGCATCTGACCTGGAGCTGC	473	XX	PT
Db	361	CTGTAAGTGCSCCATCTGCCGCCCTCGCATATWGGCATCTGACCTGGAGCTGC	420	PT	New polynucleotides which encode polypeptides involved in olfactory sensation for identifying olfactory agonists and antagonists -
QY	474	ATCACCTCCGGTACTCTGGACCTGGGCTTATCCTGATCATCTGTG	533	PT	sensation for identifying olfactory agonists and antagonists -
Db	421	ATCACCTCCGGTACTCTGGACCTGGGCTTATCCTGATCATCTGTG	480	XX	
QY	534	TACTCTACTTACCTCTGAGGCCAGAAATTATCCTTGTGAAAT	593	XX	
Db	481	TACTCTACTTACCTCTGAGGCCAGAAATTATCCTTGTGAAAT	539	XX	WPI: 2001-290713/30.
QY	594	CTGGCTGTCCTCAACTGGCTGAGAACATGAGAAGCTGCTGCG	653	XX	
Db	540	CTGGCTGTCCTCAACTGGCTGAGAACATGAGAAGCTGCTGCG	599	XX	
QY	654	CGGGAATCTGGCTGGACCCCTGAGAACATCAAGGAAGTTCAGAGAACCTCG	713	XX	
Db	600	CGGGAATCTGGCTGGACCCCTGAGAACATCAAGGAAGCTCG	659	XX	
QY	714	CCTCTGCTACCTGAGAACATCAAGGAAGTTCAGAGAACCTCG	773	XX	
Db	660	OCTCTGCTACCTGAGAACATCAAGGAAGTTCAGAGAACCTCG	719	XX	
QY	774	CTCTCTACCTGAGAACATCAAGGAAGTTCAGAGAACCTCG	833	XX	
Db	720	CTCTCTACCTGAGAACATCAAGGAAGTTCAGAGAACCTCG	779	XX	
QY	834	ACCCAGATATGGAACCCAGGACAGAGAATACTCTCTGTTCAAGCCCTT	893	XX	
Db	780	ACCCAGATATGGAACCCAGGACAGAGAATACTCTCTGTTCAAGCCCTT	839	XX	
QY	894	TTATCCATSTCACTCCCTAATCTGTTAGAACATCGAGAGAACATCTT	953	XX	
Db	840	TTATCCATSTCACTCCCTAATCTGTTAGAACATCGAGAGAACATCTT	899	XX	
QY	954	GAAGAGATGGAGTAAAGGCTTA	984	XX	
Db	900	GAAGAGATGGAGTAAAGGCTTA	930	XX	
RESULT 9					
AAH31648				SQ	Sequence 930 BP; 193 A; 265 C; 202 G; 270 T; 0 other;
ID	AAH31648	standard; DNA; 930 BP.		Query Match	88 %; Score 900.6; DB 22; Length 930;
XX				Best Local Similarity	99.4%; Pred. No. 5; 9e-260;
AC	AAH31648;			Matches	925; Conservatve: 0; Mismatches: 4; Indels: 2; Gaps: 2;
DT	30-JUL-2001	(first entry)		QY	55 ATGGGGACATATACATCATCACAGAGTTCCTCCACTGGATTTCCCGATGCCA
DE	Human olfactory receptor polynucleotide, SEQ ID NO: 221.			Db	1 ATGGGGACATATACATCATCACAGAGTTCCTCCACTGGATTTCCCGATGCCA
XX	Human; olfactory receptor; OR: primary scent determination; polypeptide library; odour receptor; secondary scent determination; polypeptide library; odour receptor; scent profile; scent fingerprint; scent representation; ds.			QY	115 AGGATTCAGATGCTCTTGTGGCTCTCCCTGCTACCTCTCACCTGCTGGG
OS	Homo sapiens.			Db	61 AGGATTCAGATGCTCTTGTGGCTCTCCCTGCTACCTGCTGGG
XX	W0200127158-A2.			QY	175 AACGGACCATACGGCTCATCTCACAGGACTGACCTGACGGCCCC-TGATCTC
PN	19-APR-2001.			Db	121 AACGGACCATACGGCTCATCTCACAGGACTGACCTGACGGCCCC-TGATCTC
PR	06-OCT-2000; 2000WO-US27582.			QY	234 TTCTCTACACCTGGGTGTTGACATGCTTACGGCTGACACAGGTGCCCCATGACTTC
	08-OCT-1999; 99US-0158615.			Db	181 TTCTCTACACCTGGGTGTTGACATGCTTACGGCTGACACAGGTGCCCCATGACTTC
	24-FEB-2000; 2000US-0184809.			QY	294 CTGGTGAACCTCCTGCATCCAGCAAGGCCATCTCGGCGCCATGATGACACC
				Db	241 CTGGTGAACCTCCTGCATCCAGCAAGGCCATCTCGGCGCCATGATGACACC
				QY	354 TTTCGTTTCCACTTGTGTCAGAGATGTCCTCCCTGCTGATGTC
				Db	301 TTTCGTTTCCACTTGTGTCAGAGATGTCCTCCCTGCTGATGTC
				QY	414 CTGTAAGTGCSCCATCTGCCGCCCTCGCATATWGGCATCTGACCTGGAGCTGC
				Db	361 CTGTAAGTGCSCCATCTGCCGCCCTCGCATATWGGCATCTGACCTGGAGCTGC
				QY	474 ATCACCTCCGGTACTCTGGACCTGGGCTTATCCTGATCATCTGTG
				Db	421 ATCACCTCCGGTACTCTGGACCTGGGCTTATCCTGATCATCTGTG
				QY	534 TACTCTACTTACCTCTGAGAACATGAGAATTTATCCTGATGTC
				Db	361 CTGTAAGTGCSCCATCTGCCGCCCTCGCATATWGGCATCTGACCTGGAGCTGC
				QY	481 TTACTCTACTTACCTCTGAGAACATGAGAATTTATCCTGATGTC
				Db	594 CTGGCTGTCCTCAACTTGTGTCAGATGCCACCATGAGAACATGAGAATGCTG
				QY	540 CTGGCTGTCCTCAACTTGTGTCAGATGCCACCATGAGAACATGAGAATGCTG

Db	294	CCATCATCATGATACATGGCCCCAAGTCCGCCATCTGAGGAGCAGCAAAGGTCTTT	235	Qy	156	CCTCTCACCTGTGGAACGGGACCACTGGGACTCACTGAGCTCCAGAC	215
Qy	875	TGCTGTTCAAGCCCTTAAATCCATGGTCATCCCTATCTGTGACTCTAGGA	934	Db	953	TATCTTCACCCCTGCGGAAACGGGCCATCCGGGTCATCTCACTGGACTCAG	894
Db	234	TCTCATTTAGTGTGTTAACCCAACTTAACCCGTTGAGCTACGCGTCAAGGAA	175	Qy	216	GCACGCCCG-TGTACTCTCTCACACCTGGCGTGTGAGCTGGCTACGGCTG	274
Qy	935	CAGAAGTGAAAGATACTTGTAGAGAGTGTGGAGTAGAAGGGCTTATGA	987	Db	893	CCACACCCCATGTAATCTCCCTCAACCTGGCTGCGAGATCGSCTAACCG	834
Db	174	GAGAGTCAGGGTGCCCTAGAGAGACTGGCAAGGAAGTCATCTCTAA	122	Qy	275	CAACAGGTCCCCGAGACTCTGGTAACCTGCTCAGCATCGACAGCCATCTCTTC	334
RESULT	11			Db	833	CAACAGGTCCCCGAGACTCTGGCAAGACTCCCTGCACTGGCAAGCCATCTCTTC	774
ABA5696/C				Db	395	GGTGGTGTGATGTCCTAGTGTGAGCTGTCAGTGGCCACCTGCCCAC	454
ID	ABA5696	standard; DNA; 1957 BP.		Db	713	GGTGGTGTGATGTCCTAGTGTGAGCTGTCAGTGGCCACCTGCCCAC	654
XX				Qy	455	CATGACCTGGAGAGCTCATCACCTGTCGAC	514
AC				Db	653	CATGACCTGGAGAGCTCATCACCTGTCGAC	594
XX				Qy	515	ATCCATGATTCATCTGTGTTACTCTCTGTTACCCCTCTAGGCCAGAAATT	574
KW				Db	593	GCCTCGGCCATGTTGACTCATCGTAAAGCTGCCCCCTCTCGGGCTCATGAAATCA	534
XX				Qy	575	TCACCTTTGGAAGAACTTGCTGTCACACTTGCCCTGAGATCCACAT	634
OS				Db	533	CCAC-TTCTCTGAAACTCTGTGTTCTGAGCCGCTGACACTSGCTCA	475
XX				Qy	635	ATGAGACATGCTGGCGGAGCAATTCTGGCGTGGACCTGTCACAT	694
PN				Db	474	ACCAGSTGTCATCTTTTAAAGCTGAGGAGATCCACAT	415
XX				Qy	695	TAGTTCATATGTCATCTGTGTTATCTTCAGTCATCAGGAAGTCAGA	754
PR				Db	414	TGTCCTCTACTCGCACATCTGGCGCATCTGAGATCGTGGGAGGCCGCA	355
XX				Qy	755	GGAAACCTCTGACCTGCTTCRCCACCTCTGTTGATGAGCTTATGGACAG	814
PA				Db	354	GAAGGCCTCTCACCTGCCACCTCTGGGACTCTCTGG	295
(MOLE-) MOLECULAR DYNAMICS INC.				Qy	815	CCATCATGATGTCAGGATGGACCCAGAGAATATCTCC	874
XX				Db	294	CCATCATGATGTCAGGATGGACCCAGAGAATCTGAGGAGCAAAANGCTT	235
PT				Qy	875	TGCTGTTCAAGCCCTTAAATCCATGGTCATCCCTATCTGTGACTCTAG	934
PX				Db	234	TCTCATTTAGTGTGTTAACCCAACTTAACCCGTTGAGCTACGCGTCAAGGAA	175
PS				Qy	935	CAGAAGTGAAAGATACTTGTAGAGAGTGTGGAGTAGAAGGGCTTATGA	987
XX				Db	174	GAGAGTCAGGGTGCCCTAGAGAGACTGGCAAGGAAGTCATCTCTAA	122
XX				RESULT	12		
WPI;				SQ	1957	BP: 604 A: 368 C: 495 G: 490 T: 0 other:	
XX				Qy	156	CCTCTCACCTGTGGAACGGGACCACTGGGACTCACTGAGCTCCAGAC	215
XX				Db	953	TATCTTCACCCCTGCGGAAACGGGCCATCCGGGTCATCTCACTGGACTCAG	894
XX				Qy	216	GCACGCCCG-TGTACTCTCTCACACCTGGCGTGTGAGCTGGCTACGGCTG	274
XX				Db	893	CCACACCCCATGTAATCTCCCTCAACCTGGCTGCGAGATCGSCTAACCG	834
XX				Qy	275	CAACAGGTCCCCGAGACTCTGGTAACCTGCTCAGCATCGACAGCCATCTCTTC	334
XX				Db	833	CAACAGGTCCCCGAGACTCTGGCAAGACTCCCTGCACTGGCAAGCCATCTCTTC	774
XX				Db	395	GGTGGTGTGATGTCCTAGTGTGAGCTGTCAGTGGCCACCTGCCCAC	454
XX				Db	713	GGTGGTGTGATGTCCTAGTGTGAGCTGTCAGTGGCCACCTGCCCAC	654
XX				Qy	455	CATGACCTGGAGAGCTCATCACCTGTCGAC	514
XX				Db	653	CATGACCTGGAGAGCTCATCACCTGTCGAC	594
XX				Qy	515	ATCCATGATTCATCTGTGTTACTCTCTGTTACCCCTCTAGGCCAGAAATT	574
XX				Db	593	GCCTCGGCCATGTTGACTCATCGTAAAGCTGCCCCCTCTCGGGCTCATGAAATCA	534
XX				Qy	575	TCACCTTTGGAAGAACTTGCTGTCACACTTGCCCTGAGATCCACAT	634
XX				Db	533	CCAC-TTCTCTGAAACTCTGTGTTCTGAGCCGCTGAGCCGCTGACACTSGCTCA	475
XX				Qy	635	ATGAGACATGCTGGCGGAGCAATTCTGGCGTGGACCTGTCACAT	694
XX				Db	474	ACCAGSTGTCATCTTTAAAGCTGAGGAGATCCACAT	415
XX				Qy	695	TAGTTCATATGTCATCTGTGTTATCTTCAGTCATCAGGAAGTCAGA	754
XX				Db	414	TGTCCTCTACTCGCACATCTGGCGCATCTGAGATCGTGGGAGGCCGCA	355
XX				Qy	755	GGAAACCTCTGACCTGCTTCRCCACCTCTGTTGATGAGCTTATGGACAG	814
XX				Db	354	GAAGGCCTCTCACCTGCCACCTCTGGGACTCTCTGG	295
XX				Qy	815	CCATCATGATGTCAGGATGGACCCAGAGAATATCTCC	874
XX				Db	294	CCATCATGATGTCAGGATGGACCCAGAGAATCTGAGGAGCAAAANGCTT	235
XX				Qy	875	TGCTGTTCAAGCCCTTAAATCCATGGTCATCCCTATCTGTGACTCTAG	934
XX				Db	234	TCTCATTTAGTGTGTTAACCCAACTTAACCCGTTGAGCTACGCGTCAAGGAA	175
XX				Qy	935	CAGAAGTGAAAGATACTTGTAGAGAGTGTGGAGTAGAAGGGCTTATGA	987
XX				Db	174	GAGAGTCAGGGTGCCCTAGAGAGACTGGCAAGGAAGTCATCTCTAA	122
XX				RESULT	12		
XX				SQ	1957	BP: 604 A: 368 C: 495 G: 490 T: 0 other:	
XX				Qy	156	CCTCTCACCTGTGGAACGGGACCACTGGGACTCACTGAGCTCCAGAC	215
XX				Db	953	TATCTTCACCCCTGCGGAAACGGGCCATCCGGGTCATCTCACTGGACTCAG	894
XX				Qy	216	GCACGCCCG-TGTACTCTCTCACACCTGGCGTGTGAGCTGGCTACGGCTG	274
XX				Db	893	CCACACCCCATGTAATCTCCCTCAACCTGGCTGCGAGATCGSCTAACCG	834
XX				Qy	275	CAACAGGTCCCCGAGACTCTGGTAACCTGCTCAGCATCGACAGCCATCTCTTC	334
XX				Db	833	CAACAGGTCCCCGAGACTCTGGCAAGACTCCCTGCACTGGCAAGCCATCTCTTC	774
XX				Db	395	GGTGGTGTGATGTCCTAGTGTGAGCTGTCAGTGGCCACCTGCCCAC	454
XX				Db	713	GGTGGTGTGATGTCCTAGTGTGAGCTGTCAGTGGCCACCTGCCCAC	654
XX				Qy	455	CATGACCTGGAGAGCTCATCACCTGTCGAC	514
XX				Db	653	CATGACCTGGAGAGCTCATCACCTGTCGAC	594
XX				Qy	515	ATCCATGATTCATCTGTGTTACTCTCTGTTACCCCTCTAGGCCAGAAATT	574
XX				Db	593	GCCTCGGCCATGTTGACTCATCGTAAAGCTGCCCCCTCTCGGGCTCATGAAATCA	534
XX				Qy	575	TCACCTTTGGAAGAACTTGCTGTCACACTTGCCCTGAGATCCACAT	634
XX				Db	533	CCAC-TTCTCTGAAACTCTGTGTTCTGAGCCGCTGAGCCGCTGACACTSGCTCA	475
XX				Qy	635	ATGAGACATGCTGGCGGAGCAATTCTGGCGTGGACCTGTCACAT	694
XX				Db	474	ACCAGSTGTCATCTTTAAAGCTGAGGAGATCCACAT	415
XX				Qy	695	TAGTTCATATGTCATCTGTGTTATCTTCAGTCATCAGGAAGTCAGA	754
XX				Db	414	TGTCCTCTACTCGCACATCTGGCGCATCTGAGATCGTGGGAGGCCGCA	355
XX				Qy	755	GGAAACCTCTGACCTGCTTCRCCACCTCTGTTGATGAGCTTATGGACAG	814
XX				Db	354	GAAGGCCTCTCACCTGCCACCTCTGGGACTCTCTGG	295
XX				Qy	815	CCATCATGATGTCAGGATGGACCCAGAGAATATCTCC	874
XX				Db	294	CCATCATGATGTCAGGATGGACCCAGAGAATCTGAGGAGCAAAANGCTT	235
XX				Qy	875	TGCTGTTCAAGCCCTTAAATCCATGGTCATCCCTATCTGTGACTCTAG	934
XX				Db	234	TCTCATTTAGTGTGTTAACCCAACTTAACCCGTTGAGCTACGCGTCAAGGAA	175
XX				Qy	935	CAGAAGTGAAAGATACTTGTAGAGAGTGTGGAGTAGAAGGGCTTATGA	987
XX				Db	174	GAGAGTCAGGGTGCCCTAGAGAGACTGGCAAGGAAGTCATCTCTAA	122
XX				RESULT	12		
XX				SQ	1957	BP: 604 A: 368 C: 495 G: 490 T: 0 other:	
XX				Qy	156	CCTCTCACCTGTGGAACGGGACCACTGGGACTCACTGAGCTCCAGAC	215
XX				Db	953	TATCTTCACCCCTGCGGAAACGGGCCATCCGGGTCATCTCACTGGACTCAG	894
XX				Qy	216	GCACGCCCG-TGTACTCTCTCACACCTGGCGTGTGAGCTGGCTACGGCTG	274
XX				Db	893	CCACACCCCATGTAATCTCCCTCAACCTGGCTGCGAGATCGSCTAACCG	834
XX				Qy	275	CAACAGGTCCCCGAGACTCTGGTAACCTGCTCAGCATCGACAGCCATCTCTTC	334
XX				Db	833	CAACAGGTCCCCGAGACTCTGGCAAGACTCCCTGCACTGGCAAGCCATCTCTTC	774
XX				Db	395	GGTGGTGTGATGTCCTAGTGTGAGCTGTCAGTGGCCACCTGCCCAC	454
XX				Db	713	GGTGGTGTGATGTCCTAGTGTGAGCTGTCAGTGGCCACCTGCCCAC	654
XX				Qy	455	CATGACCTGGAGAGCTCATCACCTGTCGAC	514
XX				Db	653	CATGACCTGGAGAGCTCATCACCTGTCGAC	594
XX				Qy	515	ATCCATGATTCATCTGTGTTACTCTCTGTTACCCCTCTAGGCCAGAAATT	574
XX				Db	593	GCCTCGGCCATGTTGACTCATCGTAAAGCTGCCCCCTCTCGGGCTCATGAAATCA	534
XX				Qy	575	TCACCTTTGGAAGAACTTGCTGTCACACTTGCCCTGAGATCCACAT	634
XX				Db	533	CCAC-TTCTCTGAAACTCTGTGTTCTGAGCCGCTGAGCCGCTGACACTSGCTCA	475
XX				Qy	635	ATGAGACATGCTGGCGGAGCAATTCTGGCGTGGACCTGTCACAT	694
XX				Db	474	ACCAGSTGTCATCTTTAAAGCTGAGGAGATCCACAT	415
XX				Qy	695	TAGTTCATATGTCATCTGTGTTATCTTCAGTCATCAGGAAGTCAGA	754
XX				Db	414	TGTCCTCTACTCGCACATCTGGCGCATCTGAGATCGTGGGAGGCCGCA	355
XX				Qy	755	GGAAACCTCTGACCTGCTTCRCCACCTCTGTTGATGAGCTTATGGACAG	814
XX				Db	354	GAAGGCCTCTCACCTGCCACCTCTGGGACTCTCTGG	295
XX				Qy	815	CCATCATGATGTCAGGATGGACCCAGAGAATATCTCC	874
XX				Db	294	CCATCATGATGTCAGGATGGACCCAGAGAATCTGAGGAGCAAAANGCTT	235
XX				Qy	875	TGCTGTTCAAGCCCTTAAATCCATGGTCATCCCTATCTGTGACTCTAG	934
XX				Db	234	TCTCATTTAGTGTGTTAACCCAACTTAACCCGTTGAGCTACGCGTCAAGGAA	175
XX				Qy	935	CAGAAGTGAAAGATACTTGTAGAGAGTGTGGAGTAGAAGGGCTTATGA	987
XX				Db	174	GAGAGTCAGGGTGCCCTAGAGAGACTGGCAAGGAAGTCATCTCTAA	122
XX				RESULT	12		
XX				SQ	1957	BP: 604 A: 368 C: 495 G: 490 T: 0 other:	
XX				Qy	156	CCTCTCACCTGTGGAACGGGACCACTGGGACTCACTGAGCTCCAGAC	215
XX				Db	953	TATCTTCACCCCTGCGGAAACGGGCCATCCGGGTCATCTCACTGGACTCAG	894
XX				Qy	216	GCACGCCCG-TGTACTCTCTCACACCTGGCGTGTGAGCTGGCTACGGCTG	274
XX				Db	893	CCACACCCCATGTAATCTCCCTCAACCTGGCTGCGAGATCGSCTAACCG	834
XX				Qy	275	CAACAGGTCCCCGAGACTCTGGTAACCTGCTCAGCATCGACAGCCATCTCTTC	334
XX				Db	833	CAACAGGTCCCCGAGACTCTGGCAAGACTCCCTGCACTGGCAAGCCATCTCTTC	774
XX				Db	395	GGTGGTGTGATGTCCTAGTGTGAGCTGTCAGTGGCCACCTGCCCAC	454
XX				Db	713	GGTGGTGTGATGTCCTAGTGTGAGCTGTCAGTGGCCACCTGCCCAC	654
XX				Qy	455	CATGACCTGGAGAGCTCATCACCTGTCGAC	514
XX				Db	653	CATGACCTGGAGAGCTCATCACCTGTCGAC	594
XX				Qy	515	ATCCATGATTCATCTGTGTTACTCTCTGTTACCCCTCTAGGCCAGAAATT	574
XX				Db	593	GCCTCGGCCATGTTGACTCATCGTAAAGCTGCCCCCTCTCGGGCTCATGAAATCA	534
XX				Qy	575	TCACCTTTGGAAGAACTTGCTGTCACACTTGCCCTGAGATCCACAT	634
XX				Db	533	CCAC-TTCTCTGAAACTCTGTGTTCTGAGCCGCTGAGCCGCTGACACTSGCTCA	475
XX				Qy	635	ATGAGACATGCTGGCGGAGCAATTCTGGCGTGGACCTGTCACAT	694
XX				Db	474	ACCAGSTGTCATCTTTAAAGCTGAGGAGATCCACAT	415
XX				Qy	695	TAGTTCATATGTCATCTGTGTTATCTTCAGTCATCAGGAAGTCAGA	754
XX				Db	414	TGTCCTCTACTCGCACATCTGGCGCATCTGAGATCGTGGGAGGCCGCA	355
XX				Qy	755	GGAAACCTCTGACCTGCTTCRCCACCTCTGTTGATGAGCTTATGGACAG	814
XX				Db	354	GAAGGCCTCTCACCTGCCACCTCTGGGACTCTCTGG	295
XX				Qy	815	CCATCATGATGTCAGGATGGACCCAGAGAATATCTCC	874
XX				Db	294	CCATCATGATGTCAGGATGGACCCAGAGAATCTGAGGAGCAAAANGCTT	235
XX				Qy	875	TGCTGTTCAAGCCCTTAAATCCATGGTCATCCCTATCTGTGACTCTAG	934
XX				Db	234	TCTCATTTAGTGTGTTAACCCAACTTAACCCGTTGAGCTACGCGTCAAGGAA	175
XX				Qy	935	CAGAAGTGAAAGATACTTGTAGAGAGTGTGGAGTAGAAGGGCTTATGA	987
XX				Db	174	GAGAGTCAGGGTGCCCTAGAGAGACTGGCAAGGAAGTCATCTCTAA	122
XX				RESULT	12		
XX				SQ	1957	BP: 604 A: 368 C: 495 G: 490 T: 0 other:	
XX				Qy	156	CCTCTCACCTGTGGAACGGGACCACTGGGACTCACTGAGCTCCAGAC	215
XX				Db	953	TATCTTCACCCCTGCGGAAACGGGCCATCCGGGTCATCTCACTGGACTCAG	894
XX				Qy	216	GCACGCCCG-TGTACTCTCTCACACCTGGCGTGTGAGCTGGCTACGGCTG	274
XX				Db	893	CCACACCCCATGTAATCTCCCTCAACCTGGCTGCGAGATCGSCTAACCG	834
XX				Qy	275	CAACAGGTCCCCGAGACTCTGGTAACCTGCTCAGCATCGACAGCCATCTCTTC	334
XX				Db	833	CAACAGGTCCCCGAGACTCTGGCAAGACTCCCTGCACTGGCAAGCCATCTCTTC	774
XX				Db	395	GGTGGTGTGATGTCCTAGTGTGAGCTGTCAGTGGCCACCTGCCCAC	454
XX				Db	713	GGTGGTGTGATGTCCTAGTGTGAGCTGTCAGTGGCCACCTGCCCAC	

PN WO200157278-A2.
 XX PD 09-AUG-2001.
 XX PR 30-JAN-2001; 2001WO-US00670.
 XX PR 04-FEB-2000; 2000US-0180312.
 PR 26-MAY-2000; 2000US-0207456.
 PR 30-JUN-2000; 2000US-0608408.
 PR 03-AUG-2000; 2000US-0502356.
 PR 21-SEP-2000; 2000US-0234687.
 PR 27-SEP-2000; 2000US-0236359.
 PR 04-OCT-2000; 2000GB-0024263.
 XX PA (MOLE-) MOLECULAR DYNAMICS INC.
 XX PI Penn SG, Hanzel DK, Chen W, Rank DR;
 DR WPI; 2001-48801/53.
 XX PT Human genome-derived single exon nucleic acid probes useful for
 analyzing gene expression in human cervical epithelial cells -
 XX PS claim 25; SEQ ID No 3902; 487pp; English.
 XX CC The present invention relates to human single exon nucleic acid probes
 (SNPs). The present sequence is one such probe. The SNPs are derived
 from human HeLa cells. The SNPs can be used to produce a single exon
 microarray, which can be used for measuring human gene expression in a
 sample derived from human cervical epithelial cells. By measuring gene
 expression, the probes are therefore useful in grading and/or staging
 CC of diseases of the cervix, notably cervical cancer.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.
 XX SQ Sequence 1957 BP; 604 A; 368 C; 495 G; 490 T; 0 other;
 Query Match 53.7%; Score 545; DB 22; Length 1957;
 Best Local Similarity 74.6%; Pred. No. 6e-153; 0; Mismatches 240; Indels 2; Gaps 2;
 Matches 711; Conservative 0;
 Qy 36 TTTCCTCTCATGGGATAGGGGACATAAATCAGACAGACTCCCTACT 95
 Db 1073 TTTCCTTTTACAGGAAATGGGGAAATCAGACATGGCTACAGAGTTCCCTACT 1014
 Qy 96 GGGATTCCGTTGGCAAGAGTTCAAGTGCTCCTTGGGCCTTCGCCGTGTC 155
 Db 1013 GGGATTCTCTGGCCCAAGGTTCAAGTGCTCCTTGGGCCTTCGCCGTGTC 954
 Qy 156 CGTCCTCACCTGCTGGGGACGGACATACTGGGGCTATCTGACTGGCTCCAGCT 215
 Db 953 TATCTCACCTGCTGGGGCATCTGGGCTCATCTCACTGGACTCCAGCT 894
 Qy 216 GCACGCCCGC-TGACTCTCTCTCACCTGGGGCTGAGCTGGCTACCCG 274
 Db 893 CCACACCCCCATGACTCTCTCTCACCTGGGGCTGAGCTGGCTACCCG 834
 Qy 275 CAACAGGGTCCGGATCTGGTGAACCTCTGCAACGCCCTCTCTTGCG 334
 Db 833 CAACACGGGGCCAGAGCTGGCAACCTCTGCAACGCCCTCTTGCG 774
 Qy 335 GGCCCGCATATGCAAGCTTGGTCCACTTGCTCACAGAATGCTCT 394
 Db 773 TGGTGTGCAAGCAGACGAGCTCTCTGAGTTGGTGGACACGAGATGCTCTGCT 714
 Qy 395 GGTGGTGAATGCTCATGATCTGGTGAAGCTCTGCAACGCCCTCTGGCG 454
 Db 713 GGTGGTGAATGCTCATGATCTGGTGAAGCTCTGCAACGCCCTCTGGCG 654
 Qy 455 CATGACCTGGAGAGCTGGTGAACCTGGCGGTGACTCTGGGACACTGGAGCTCTT 514
 Db 653 CATGACCTGGAGAGCTGGTGAACCTGGCGGTGACTCTGGAGCTCTT 594

QY 515 ATCCCTGATTCATCTTGGTTACTCTTACCCCTTGAGGCCAGAAAATT 574
 DB 593 GGCCTGCCCCAATGGGGCTCATCCPAAGACTGGCCTCTGGGCCATGAAATCA 534
 QY 575 TCACTTTTTGGAAMACTGGCTGTCACAATYGGCTGAGAACATCA 634
 DB 533 CCAC-TTCCTCTGAAATCCCTGCTGCTGCTGCTGAGCTGGGACCTGGCTGACCTGGCTG 475
 QY 635 ATGAGAACATGGCTGGCCAGCAATTCTGGCTGGGGACCTGGTCAAATTG 694
 DB 474 ACCAGGGGACATCTTCAGCTGCTGCTGCTGCTGCTGCTGGGGCACCCAGCCTGGG 415
 QY 695 TAGTUTCATATGTCGTCCTCTGCTATCCTCTGAGTCATCAAGGGAGTCA 754
 DB 414 TTGTCCTCTACTGCACTCCRCGCGACCATCTGAGGTCAGCTGGGGAGGCCCA 355
 QY 755 GGAAGGCTCTGACCTGCTCTCCACCTCTGTTGAGTTGGACTCTTTATGCGACAG 814
 DB 354 GAAGGCCTCTCACCGCTCTCCACCTCTGCTGCTGCTGGGAGCTCTTGGCAGTC 295
 QY 815 CCATATCATGTTGAGCCAGATGGACCCCAGAGGAGAAGAAATCTCC 874
 DB 294 CCATCATGTTGACATGCCCAAGTCCCTCATCTGAGGAGCAGCAAAGTC 235
 QY 875 TGCTTTTACAGSCTCTTAATCCAGTCATCCCTTATCTGTTGACTCTTGGAGACT 934
 DB 234 TTCTTATTCACATTTCACAGGAAACCTAACGTTAACCCCTGAGTACAGCTGAG 175
 QY 935 CAGAGTGGAGATCTTGAGAGAGCTCTGGAGTAGAAGGCTTATGAG 987
 DB 174 GAGAGGTCAAGGGTGGCCCTGAGGAGACTGGCAAGGAAGTCATTCTAA 122

RESULT 13
 AA13352/C
 ID AA13352 standard; DNA; 1957 BP.
 XX AC AA13352;
 XX DT 17-OCT-2001 (first entry)
 XX DE Probe #4038 used to measure gene expression in human placenta sample.
 XX KW Probe; microarray; human; placenta; antenatal diagnosis;
 XX OS Homo sapiens.
 XX PN WO200157272-A2.
 XX PD 09-AUG-2001.
 XX PR 30-JAN-2001; 2001WO-US00663.
 PR 04-FEB-2000; 2000US-0180312.
 PR 26-MAY-2000; 2000US-0207456.
 PR 30-JUN-2000; 2000US-0608408.
 PR 03-AUG-2000; 2000US-0623266.
 PR 21-SEP-2000; 2000US-0234687.
 PR 27-SEP-2000; 2000US-0236359.
 PR 04-OCT-2000; 2000GB-0024263.
 XX PA (MOLE-) MOLECULAR DYNAMICS INC.
 XX PI Penn SG, Hanzel DK, Chen W, Rank DR;
 DR WPI; 2001-48801/53.
 XX PT Human genome-derived single exon nucleic acid probes useful for
 analyzing gene expression in human placenta -
 XX PS Claim 25; SEQ ID No 4038; 654pp; English.

CC expression of the exons in the tissues and/or cell types indicates that CC the exons should be assigned to a single gene; a peptide comprising one CC of 12011 sequences, mentioned in the specification, or encoded by the CC probes/open reading frames (ORF). The probes are used for gene CC expression analysis, and for identifying exons in a gene, particularly CC using human lung derived mRNA and for the study of lung diseases such as asthma, lung cancer, chronic obstructive pulmonary disease CC (COPD), interstitial lung disease (ILD), familial idiopathic pulmonary fibrosis, neurofibromatosis, tuberous sclerosis, Gaucher's disease, Niemann-Pick disease, Hermansky-Pudlak syndrome, lymphangiomyomatosis, haemosiderosis, pulmonary histiocytosis, Kallinger syndrome, fibrocytic pulmonary dysplasia, primary ciliary dyskinesia, pulmonary hypertension and hyaline membrane disease. The present sequence is a single exon probe of the invention.

Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.

SQ

Sequence 1957 BP; 604 A; 368 C; 495 G; 490 T; 0 other;

XX

SQ

Query Match

53.7%

Score 545;

DB 24;

Length 1957;

Matches 711;

Best Local Similarity 74.6%;

Pred. No. 5e-13;

0;

MisMatches 240;

Indels 2;

Gaps 2;

XX

QY

36

TTCCTCTCGTGATAGGATATGGGGACAAATAACATCCATCACAGAGTTCTCTACT

95

Db

1073

TTCTCTTTTGACAGGAATGGGGAAATCAGACATGGCACAGATTCTCTACT

1014

OY

96

GGAAATTCCGGTGGCCAAAGATTCAGATGCCCTCTTGTGGCTTCCCTGTC

155

Db

1013

GGGATTTCTCGGGCAAGATTCAGATGCCCTCTTGTGGCTTCCCTGTC

954

QY

156

CGTCTGACCCCTCTGGGAAGGGACCATCTGGGTCTACATCTGACTG

215

Db

953

TACCTGCACCCTGCTGGGAAGGGCACTCTGGGTCTACCTGACAGACT

894

QY

216

GCAGCCCCC-TGACTCTCTCACACCTGGGGTGTGACATGCCCTACGCC

274

Db

893

CCACACCCCCGATGACTCTCTCACACTGCTGCTGCTCACATGCCCTACCCG

834

QY

275

CAACACGGTGGCCCAAGTAGCTGCTGCGAACCTCCATCTCTCTG

334

Db

833

CAACACGGTGGCCCAAGTAGCTGCTGCGAACCTCCATCTCTCTG

774

QY

335

GGACCGATGATGCCACCTCTGTTCACTTGTCTGACAAATGTC

394

Db

773

TGGTGCATGAGGAGCACCTTCTGTTAGTTGGACACAGCGAATGTC

714

QY

395

GGTGTGATGCTATGCTACCTGGCCATCCGCCACCCCCCTCGATTTGGCC

454

Db

713

GGTGTGATGCTACCTGGCTTACATGGCTTACGGCGCATGCCCTCTCG

654

QY

455

CATGACTGGAGTCCTGCACTACCCCTCGGGTGTACTCTGGACACTGG

554

Db

653

CATGACCTGGAGTCCTGCACTACCCCTCGGGTGTACTCTGGACACTGG

594

QY

515

ATCCTGATTCTGTTACTCTACCTTCTGCTGAGGAGTCCTGCTG

574

Db

593

GGCCTGGCCCAAGTGGTCTACATCCATGAAATCA

534

QY

575

TCACTTCTTGATGAACTGGCGCTTCGACAACCTGGCTGCGAGATAC

634

Db

533

CCAC-TCTCTCTGAAATCCCTGTCCTGAGCTGGCTGCTGACACCG

475

QY

635

ATGGAGACATGGCTTGCCGAGCAATTCTGGCTGAGGGACCTTG

694

Db

474

ACCGGGTGTCACTTGCGACCTGGCTGCTGCTG

415

QY

695

TGGTCTATATGGCATCCCTGCTGATCAGATCAATCAAGGGAGTCAGA

754

Db

414

TGGCTCTACTCGCACATCCCTGGGCCATCTGGAGATCAGTC

355

RESULT 15

ID

AAS08660

standard;

cDNA;

2282

BP.

XX

AC

AAS08660;

XX

DE

Human

cDNA

encoding

G-protein

coupled

receptor

like

protein,

GPCR;

immunogen;

KW

Human;

G-protein

coupled

receptor

like

protein;

GPCR;

#13.

KW

Human;

G-protein

coupled

receptor

like

protein;

GPCR;

#13.

KW

Human;

G-protein

coupled

receptor

like

protein;

GPCR;

#13.

KW

Human;

G-protein

coupled

receptor

like

protein;

GPCR;

#13.

KW

Human;

G-protein

coupled

receptor

like

protein;

GPCR;

#13.

KW

Human;

G-protein

coupled

receptor

like

protein;

GPCR;

#13.

KW

Human;

G-protein

coupled

receptor

like

protein;

GPCR;

#13.

KW

Human;

G-protein

coupled

receptor

like

protein;

GPCR;

#13.

KW

Human;

G-protein

coupled

receptor

like

protein;

GPCR;

#13.

KW

Human;

G-protein

coupled

receptor

like

protein;

GPCR;

#13.

KW

Human;

G-protein

coupled

receptor

like

protein;

GPCR;

#13.

KW

Human;

G-protein

coupled

receptor

like

protein;

GPCR;

#13.

KW

Human;

G-protein

coupled

receptor

like

protein;

GPCR;

#13.

KW

Human;

G-protein

coupled

receptor

like

protein;

GPCR;

#13.

KW

Human;

G-protein

coupled

receptor

like

protein;

GPCR;

#13.

KW

Human;

G-protein

coupled

receptor

like

protein;

GPCR;

#13.

KW

Human;

G-protein

coupled

receptor

like

protein;

GPCR;

#13.

KW

Human;

G-protein

coupled

receptor

like

protein;

GPCR;

#13.

KW

Human;

G-protein

coupled

receptor

like

protein;

GPCR;

#13.

KW

Human;

G-protein

coupled

receptor

like

protein;

GPCR;

#13.

KW

Human;

G-protein

coupled

The sequence encodes a human G-protein coupled receptor (GPCR)-like protein. The GPCR-like polypeptides and polynucleotides are useful for the treatment of diseases of ophthalmological, neurological (e.g. Alzheimer's disease and Parkinson's disease), immunological (e.g. HIV infection and candidiasis), autoimmune disorders (e.g. multiple sclerosis, systemic lupus erythematosus and rheumatoid arthritis), platelet disorders (e.g. thrombocytopaenia and aplastic anaemia), inflammatory disorders (e.g. septic shock and systemic inflammatory response syndrome, SIRS) and nephritic syndromes. They may also be used to treat hormonal dysfunction, cancer, atherosclerosis, wounds, tissue regeneration, haemophilia, leukaemias, reperfusion injury, psoriasis and diabetes. Numerous examples of each type of disorder are given in the specification. Anti-GPCR-like protein antibodies are useful for detecting or quantitating the polypeptide in tissue. The polypeptides can also be used as molecular weight markers and as a food supplement.

SQ sequence 2282 BP; 583 A; 573 C; 428 G; 698 T; 0 other;

```

QUERY Match          53.1%; Score 538.2%; DB 22%; Length 2282;
best Local Similarity 73.6%; PRED. NO. 7.2e-151; O: Mismatches 712; Conservative
Matches 712; Indels 2; Gaps 2;

```

Search completed: May 2, 2003, 05:01:21

Job time : 293 secs

151 TTCTTACGTCCTCACCCCTGCTGGGGAAACGGGACCATACTGGGCTCATCTCCTGGACTCC 210

DD	1353	TTCGAGTCTTCACCTGTGGGAATGGGACCATCCGTTGCGTCATCTACTGGACTCC	1412
OY	211	AGAGTGCAAGCCCCC-TGTTACTCTTCTTCACCTGGGGCTGCGACATCGGCCTAC	269

Db	Qy	Sequenzer Sequence	Score
1413	AGACTCCACGCCCATGCTACTTCTTCACACCTGGGGTGCTGAAATCGCCTAT	1472	
270	GCCUCGCAACGGGGCCGGAATGTGAACTCTCTGCATCCAGCGAACGACATCC UUU	329	

Db	QY	TTTGGGGCCGCATGATGAGACCTTCTTGTTTCACTTTGTGCAACAAATGPTC	1532
1473	GCCCTGCAACAGCTGGCCCGAACAGTCTGGGGACCTCCCTGCACTGCCAACCTTC	389	

Db	Sequence	Length
1533	TTCCTGAGCTGACAGAGCTTCTCTTTTGAGTTTGACATACTGATGCTC	1592
390	CTCTGGATGTGATGCCATGATGCTGATGAGGGCACGTTGTCACCCCTTGATATTG	449
Ov		

Db	Seq	Length
1593	CTGTTGGTGTGATGTCCTACGATCCTGGTACGTCATGCCATCTGCCACCCCTCTCCGATATTIC	1652
1594	CTGTTGGTGTGATGTCCTACGATCCTGGTACGTCATGCCATCTGCCACCCCTCTCCGATATTIC	1652

QW	450	509
Db	GGCGGATCCGAGGAGGCGGAACTCTGGGGTACACTTGACCAAGGAGGC 1653 ATCACATGACCTGGAACTCTGCTCATCTCTGGCCATCACTCTGGACATGTGGCTC	1712

Oy	510	CCTTTATCCTGTGATTCACAGTCTGGTGTTACTTCACCTTACCCCTCTGAGGCCAAAGA	569
Db	1713	CTCTGGCTATTGGCCATGAGCTCACTAGACTGCCCTTGGCTCGGAA	1772

QY	630	CATCATGAGAACATGGCTCTGCCCGGACAAATTCTGGCTGGCTGTGGGACCCCTTGTCAC	689
Db	1832	GTCACCCAGGTGTCATCCTTGCAGCTTGATGTTCTATCCTCGTGGACACTCTGCT	1891

DD 1892 GGTGCGAGTCCTCTGATCAGACATGCTGGGGCCATCTTGAGAAGCTGCTGGAGGG
QY 750 TCACAGGAAGGCCCTCTGCCACCTGCTCTGCCACCTCTGTGATGGACTTTTATGG 809 1951

תְּנִינָה וְעַמְּלֵה בְּבֵית-הַמִּשְׁמָרָה 311

卷之三

卷之三

卷之三

DRAFT INITIAL ALLEGATION AND DISPOSITIONS 2131

930 GAACTCGAAGTGAAGAACTTGAAGAGAGGGGAGGTAGAAAGGGETTTATGAA 989

Db 2132 GAATGTAGAGGCTAAGGGTGCCTGAGGAGCACTGTGCAAGGAAGTCATTCTTAAGA 2191

QY 990 AGGATTA 996

D_B 2192 GGTGTTGA 2198



GenCore version 5.1.4_P5_4578
 Copyright (c) 1993 - 2003 Compugen Ltd.

Om nucleic - nucleic search, using sw mode

Run on: May 2, 2003, 04:52:26 ; Search time 1543 seconds
 (without alignments)
 10643.048 Million cell updates/sec

Title: US-09-898-586-23
 Perfect score: 1014
 Sequence: I taaacacttcctctaaacca.....tatggcatgtgactgacaa 1014

Scoring table: IDENTITY-NUC
 Gapov 10.0 , Gapext 1.0

Searched: 16154066 seqs, 8097743376 residues

Total number of hits satisfying chosen parameters: 32308132

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : EST:*

1: em_estba:*

2: em_esthum:*

3: em_estin:*

4: em_estmu:*

5: em_estov:*

6: em_estpl:*

7: em_estro:*

8: em_hrc:*

9: gb_estl:*

10: gb_est2:*

11: gb_htc:*

12: gb_est3:*

13: gb_est4:*

14: gb_est5:*

15: em_estfun:*

16: em_estom:*

17: gb_gss:*

18: em_gss_hum:*

19: em_gss_ivv:*

20: em_gss_pbn:*

21: em_gss_vrt:*

22: em_gss_fun:*

23: em_gss_mam:*

24: em_gss_mus:*

25: em_gss_other:*

26: em_gss_pro:*

27: em_gss_fod:*

Pred. No. 1 is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Query Match Length	DB ID	Description
1	532.8	52.5	2021	BC016940 Homo sapi
2	432	456	9	A1339565 qk7fem07.x
3	429.4	42.3	13	BG984967 1L5-CN006
4	417.2	453	14	BO301355 QV1-HB003
5	409	40.3	9	A1339573 qk7ff03.x
6	398.4	39.3	619	A1148854 qc7fa02.x

SUMMARIES

RESULT	1
LOCUS	BC016940
DEFINITION	Homo sapiens, Similar to olfactory receptor, family 2, subfamily A, member 4, clone IMAGE:4424116, mRNA.
ACCESSION	BC016940
VERSION	BC016940.1 GI:16877381
KEYWORDS	HTC
SOURCE	Homo sapiens.
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
REFERENCE	1 (bases 1 to 2021)
AUTHORS	Strausberg, R.
TITLE	Direct Submission
JOURNAL	Submitted (05-NOV-2001) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Bethesda, MD 20892-2590, USA
REMARK	NIH-MGC Project URL: http://mgc.nci.nih.gov
COMMENT	Tissue Procurement: ATCC CDNA Library Preparation: Life Technologies, Inc. CDNA Library Arrayed by: The I.M.A.G.E. Consortium (IIML) DNA Sequencing by: Sequencing Group at the Stanford Human Genome Center, Stanford University School of Medicine, Stanford, CA 94305 Web site: http://www-shgc.stanford.edu Contact: (pickson, Mark) mcd@paxil.stanford.edu

Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers, R. M.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LN1 at: <http://image.lnl.gov>
Series: IMAK Plate: 27 Row: 1 Column: 22
This clone was selected for full length sequencing because it passed the following selection criteria: Hexamer frequency ORF analysis, Genomescan gene prediction, Similarity but not identity to protein.

This clone has the following problem: frame shifted.
FEATURES
Source Location/qualifiers
1. .2021

BASE COUNT

470

a

546

c

427

g

578

t

ORIGIN

Query Match 52.5%; Score 532.8; DB 11; Length 2021;
Best Local Similarity 73.5%; Pred. No. 1.9e-134; Mismatches 706; Conservative 0; Indels 2; Gaps 2;
Matches 706; Conservatve 0; Mismatches 252; Indels 2; Gaps 2;

QY

38

TCCCTGTCATAGGATAGGGGACAAATATAACATCATTCAAGAGAATTCCTACTGG

97

Db

412

TCAACTAATAGGAAATGGGAAATCGAGAACATGGTCAAGAGTTCAGTTCCCTACTGG

471

Qy

98

GATTTCCTGTGCCAAGGATCAGATGCTCTTGGAATCTCCCTACTGG

157

Db

472

GATTCCTCCGGCCCAAGGATCAGATGCTCTTGGAATCTCCCTACTGG

531

Qy

158

TCTTCACCCCTGGGGAAAGGGACAACTGGGGCATCTGACTCAGACTG

217

Db

532

TCTTCACCCCTGGGGAAAGGGACAACTGGGGCATCTGACTCAGACTG

591

Qy

218

ACGCCCCC-TGTAATCTCTCTCACACTGGGGCTGACATCCCTAGGCTCA

276

Db

592

ACACCCCATGACTCTCTCACACCTGGGGCTGACATCCCTAGGCTCA

651

Qy

277

ACACGGTGGCCGGATGCTGGAACTCTCTGATCCACCCACGCCATCTCCCTGG

336

Db

652

ACACAGTGGCCCAAGGCTGCTGAACTCTCTGATCCACCCATCTCCCTGG

711

Qy

337

GGCGATGATGAGCAGACCTTCTGTTCCACCTTGCTGACAGATCTCTCCCTGG

396

Db

712

CTGCAATGACATAGACCTTCTCTTGTGAGTTTGACATACTGAATGCCCTCTGG

771

Qy

397

TGGTGTGATGCTATGATCTTACGGGCCACCTCCCTCGATATTGGCCATCA

456

Db

772

TCTGTGATGCTTACGATGGTACCTCTACCTTGACGGCCACAGAAATTATC

831

Qy

457

TGACCTGGAGAGTCATCACCCCTGGGGGACACTGGGGCTGAGCTG

516

Db

832

TGACCTGAAAGTCATCACCTCTGGGGCTGAGCTG

891

Qy

517

CCTGTGATCAGCTGTGTTACTCTACCTTGACGGCCACAGAAATTATC

576

Db

892

CTATGGCCATGAGCTGACCTCTGATAGCAGCTGGCCCTTGCTG

951

Qy

577

ACTTTTTTGTGAACTCTGCTGAGATACCAATG

636

Db

952

AC-TCTCTGAACTCTCTGCTG

1010

Qy

637

GAGAACATGGTGTGGCGGACAATTCTGGCTGAGGACCCCTG

696

Db

1011

CAGGTGGTCATCTTGGAGCTGCTGCTG

1070

Qy

697

GTTCATATATGCACTCTGCTGATCCATCAAGGGAGTGTAGAGG

756

FEATURES

Source

1. .456

/organism="Homo sapiens"

/lab_xref="Taxon: 9606"

/clone="IMAGE:174052"

/clone_id="NCI_GAP_Co8"

/tissue_type="adenocarcinoma"

/lab_host="DH10B"

/note="Organ: colon; Vector: pT7T3D-Pac (Pharmacia) with a

modified polylinker; 1st strand cDNA was prepared from

colon adenocarcinoma, and was then primed with a Not I -

oligo(dP) primer. Double-stranded cDNA was ligated to Eco

R1 adaptors (Pharmacia), digested with Not I and cloned

into the Not I and Eco RI sites of the modified pT7T3

vector. Library is normalized. Library was constructed by

Bento Soares and M. Fatima Bonaldo."

BASE COUNT

136

a

93

c

149

g

78

t

ORIGIN

RESULT 2

A1339565/c

A1339565

456 bp

mRNA

linear

EST

13-FEB-1999

DEFINITION

A1339567.x1

NCI_GAP_Co8

Homo sapiens

CDNA clone IMAGE:184052_3

K7

DEFINITION

qk07e07.x1

NCI_GAP_Co8

olfactory receptor-like protein

K7

DEFINITION

A1339565

GI:4076492

VERSION

A1339565.1

EST

JOURNAL

UNPUBLISHED

COMMENT

Contact: Robert Strausberg, Ph.D.

Email: cgabs+rc@mail.nih.gov

Tissue Procurement: Christopher Moskaluk, M.D., Michael R.

Emmert-Buck, M.D., Ph.D.

CDNA Library Preparation: M. Bento Soares, Ph.D.

DNNA Library Arrayred by: Greg Lennon, Ph.D.

DNA Sequencing by: Washington University Genome Sequencing Center

Clone distribution: NCI-GAP clone distribution information can be

found through the I.M.A.G.E. Consortium/LN1 at:

www-bio.llnl.gov/bbpr/image/

Insert Length: 400bp

Std Error: 0.00

Seq primer: -400P from Gibco.

Location/Qualifiers

1. .456

/organism="Homo sapiens"

/lab_xref="Taxon: 9606"

/clone="IMAGE:174052"

/clone_id="NCI_GAP_Co8"

/tissue_type="adenocarcinoma"

/lab_host="DH10B"

/note="Organ: colon; Vector: pT7T3D-Pac (Pharmacia) with a

modified polylinker; 1st strand cDNA was prepared from

colon adenocarcinoma, and was then primed with a Not I -

oligo(dP) primer. Double-stranded cDNA was ligated to Eco

R1 adaptors (Pharmacia), digested with Not I and cloned

into the Not I and Eco RI sites of the modified pT7T3

vector. Library is normalized. Library was constructed by

Bento Soares and M. Fatima Bonaldo."

Query Match

92.6%

Score 432;

DB 9;

Length 456;

Best Local Similarity

99.8%;

Pred. No. 3.7e-107;

Mismatches 0;

Indels 1;

Gaps 1;

Matches 443;

Conservative 0;

Db	456	TGTCCTCGTCTACGTCTCACCCCTGTTGGGAACGGGACCATACTGGGCCATCTCAC	397
Qy		/note="Organ: colon_normal; Vector: puc18; Site_1: SmaI;	
		/site_2: SmaI; A mini-library was made by cloning products	
		derived from OREMEES PCR (U.S. Letters Patent application	
Db	203	TGACTCAGACTGCAGCCCCC- <i>n</i> TACTCTCTCACACCTGGGGCTCGACA	261
Qy	396	TGGACTCCAGACTGCAGGCCCATCTACTCTCTCACACCTGGGGCTCGACA	337
Db	262	TCCCTTACGCCTGCAACACGCGGCGGAGCTGCTGAACTCTGTCATCACCCAGC	321
Qy	336	TCCCTTACGCCTGCAACACGCGGCGGAGCTGCTGAACTCTGTCATCACCCAGC	277
Db	322	CCATCTCTTGGGGCGGCGATGATCGACGCTTGTTTCCACTTTGCTCTCACAG	381
Qy	276	CCATCTCTTGGGGCGGCGATGATCGACGCTTGTTTCCACTTTGCTCTCACAG	217
Db	382	AATGTCCTCTCTGGGGTGTGATGCTTATGATCTGTCAGTGACCTTGTTGCTCACAG	441
Qy	216	AATGTCCTCTCTGGGGTGTGATGCTTATGATCTGTCAGTGACCTTGTTGCTCACAG	157
Db	442	GATAATTGGCCATCATGACCTGGAGACTCTGGCTCATACCCCTGGGGACTTCTGGACCA	501
Qy	156	GATAATTGGCCATCATGACCTGGAGACTCTGGCTCATACCCCTGGGGACTTCTGGACCA	97
Db	502	CCTGGAGCTTATACCTTCTGGTACTCTGGTACTCTGGTACTCTGGTACTCTGGTAGGC	561
Qy	96	CCTGGAGCTTATACCTTCTGGTACTCTGGTACTCTGGTACTCTGGTACTCTGGTAGGC	37
Db	562	CCGAGAAATTATCACCTTTT 585	
Db	36	CCGAGAAATTATCACCTTTT 13	
RESULT	3		
LOCUS	BG984967	443 bp mRNA	linear EST 12-JUN-2001
DEFINITION	BG984967-100401-134-009 CNO068	Homo sapiens	cDNA, mRNA sequence.
ACCESSION	BG984967		
VERSION	BG984967.1		
KEYWORDS	EST.		
SOURCE	human.		
ORGANISM	Homo sapiens		
MATERIALS	Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammal; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
REFERENCE	Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R., Nagai,M.A., da Silva,W.Jr., Zago,M.A., Bordin,S., Costa,F.F., Goldman,G.H., Carvalho,A.P., Matsukuma,A., Bala,G.S., Simpson,D.H., Brunstein,A., de oliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and Simpson,A.J.		
AUTHORS	1 (bases 1 to 443)		
TITLE	Shotgun sequencing of the human transcriptome with ORF expressed sequence tags		
JOURNAL	Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)		
MEDLINE	2020563		
COMMENT	Contact: Simpson A.J.G.		
Laboratory of Cancer Genetics			
Ludwig Institute for Cancer Research			
Brazil			
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil			
Email: asimpson@ludwig.org.br.			
This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL (http://www.ludwig.org.br/scripts/gethtml2.pl?tl=IL5&t2=IL5-CN0068-100401-434-d09t3-2001-04-10&t4=1)			
Seq primer: puc 18 forward			
High quality sequence stop: 363.			
FEATURES	Location/Qualifiers		
source	1. . 443		
/organism="Homo sapiens"			
/db_xref="taxon:9606"			
/clone_id="CNO068"			
BASE COUNT	136 a	94 c	131 g
ORIGIN	81 t	1 others	
Query Match	42.3%	Score 429.4;	DB 13; Length 443;
Best Local Similarity	99.3%	Pred. No. 1.9e-106;	
Matches	441;	Conservative	
		P mismatches	2;
		Indels	1;
		Gaps	1;
Qy	261	ATGCCCTACGGCTGACAGGGTGGCCACCTCCGATCGACCG 320	
Db	443	ATGCCCTACGGCTGACAGGGTGGCCACCTCCGATCGACCG 384	
Qy	321	CCCATCTCTTGTGGGGCGCATGATGAGCAGCTTCTGGACCA 380	
Db	383	CCCATCTCTTGTGGGGCGCATGATGAGCAGCTTCTGGACCA 324	
Qy	381	GATGTTTCTCTGGGGATGTCATGATCTGGTACTCTGGTACCTTCGGAG 440	
Db	323	GATGTTTCTCTGGGGATGTCATGATCTGGTACTCTGGTACCTTCGGAG 264	
Qy	441	CTATATTGGCATCATGACTCTGGAGAGTGTGCTCACCTTGAC 500	
Db	263	CTATATTGGCATCTGGAGAGTGTGCTCACCTTGAC 204	
Qy	501	ACTGGAGCTTATTGACTCTGATCTGTTACTCTAACCTTGCTAGG 560	
Db	203	ACTGGAGCTTATTGACTCTGATCTGTTACTCTAACCTTGCTAGG 144	
Qy	561	CCCATCTCTTGTGGGGCGCATGATGAGCAGCTTCTGGAC 620	
Db	143	CCCATCTCTTGTGGGGCGCATGATGAGCAGCTTCTGGAC 85	
Qy	621	AGATACCCACATCATGAGACATGTCCTGGGGAGAATTCTGGCTGTGGAC 680	
Db	84	AGATACCCACATCATGAGACATGTCCTGGGGAGAATTCTGGCTGTGGAC 25	
RESULT	4		
LOCUS	BQ0301355	456 bp mRNA	linear EST 16-MAY-2002
DEFINITION	QVI-HB0037-020201-589-009 HB0037	Homo sapiens	cDNA, mRNA sequence.
ACCESSION	BQ0301355		
VERSION	BQ0301355.1		
KEYWORDS	EST.		
SOURCE	human.		
ORGANISM	Homo sapiens		
MATERIALS	Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammal; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
REFERENCE	Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R., Nagai,M.A., da Silva,W.Jr., Zago,M.A., Bordin,S., Costa,F.F., Goldman,G.H., Carvalho,A.P., Matsukuma,A., Bala,G.S., Simpson,D.H., Brunstein,A., de oliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and Simpson,A.J.		
AUTHORS	1 (bases 1 to 456)		
TITLE	Shotgun sequencing of the human transcriptome with ORF expressed sequence tags		
JOURNAL	Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)		
MEDLINE	2020563		
COMMENT	Contact: Simpson A.J.G.		
Laboratory of Cancer Genetics			
Ludwig Institute for Cancer Research			

Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, São Paulo-SP,
 Brazil
 Tel: +55-11-2704922
 Fax: +55-11-2707001
 Email: ashimpson@ludwig.org.br
 This sequence was derived from the FAPESP/LCR Human Cancer Genome Project. This entry can be seen in the following URL:
http://www.ludwig.org.br/scripts/gethm12_p1r7t-QV1&t2-QV1-HB0037-seq
 primer: puc 18 forward.
 location/Qualifiers
 1. .456
 /organism="Homo sapiens"
 /lab_xref="Naxon: 9606"
 /clone 11b="HB0037"
 /dev_stage="Adult"
 /note=_Organ: boclo,tumor; Vector: puc18; Site_1: Shal;
 Site_2: Small; A mini-library was made by cloning products
 derived from ORESTES PCR (U.S. Letters Patent application
 No. 196,715 - Ludwig Institute for Cancer Research)
 profiles into the pUC 18 vector. Reverse transcription of
 tissue mRNA and cDNA amplification were performed under
 low stringency conditions."
 97 a 120 C 101 g 138 t
 ch similarity 41.2%; Score 417.4; DB 14; Length 456;
 443; Conservative 0; Mismatches 6; Indels 2; Gaps 2;
 ACCTGGCATCGCCACCCCCCGA-TATTTGGCATCGACTGGAGAGTCAT 475
 AGGGTGCATGCCACCCCTCCGAGTATGGCATCGACTGGAGAGTCAT 63
 ACCCTGGGTAACCTGGACCACTGGGACTTGAGCTCTGATCATCTGT 535
 ACCCTGGGTAACCTGGACCACTGGGACTTGAGCTCTGATCATCTGT 123
 CTCTACCTTACCCCTGAGGGCCAGAAATTATGCTTTTGTGAATCT 595
 CTCTACCTTACCCCTGAGGGCCAGAAATTATGCTTTTGTGAATCT 182
 GGGCTGTCTCRAACTGCTTGGAGATAACCATCACATGGAGAACGCTTGCCCC 655
 GGCTGTCTCRAACTGCTTGGAGATAACCATCACATGGAGAACGCTTGCCCC 242
 AGAAATTCTGGCTGGGACCCCTGGCACAAATGTTGTTCATATGGCATCC 715
 AGCAATTCTGGCTGGGACCCCTGGCACAAATGTTGTTCATATGGCATCC 302
 CTGTCGATCCTCAGATCATCAGGGAGTICAGAGGAACCTCTGCACTGCT 775
 CTGTCGATCCTCAGATCATCAGGGAGTICAGAGGAACCTCTGCACTGCT 362
 CTGTCGATCCTCAGATCATCAGGGAGTICAGAGGAACCTCTGCACTGCT 835
 CTGTCGATCCTCAGATCATCAGGGAGTICAGAGGAACCTCTGCACTGCT 422
 A1339573.1 GI:4076500
 EST.
 CAGATATGGGAAACCCGGAGGAGAGAGCA 866
 CAGATATGGGAAACCCGGAGGAGAGAGCA 453

				ORGANISM
				<i>Homo sapiens</i>
REFERENCE				Fukaria; Metazoa; Chordata; Craniata; vertebrata; Euteleostomi;
AUTHORS				Mammalia; Eutheria; Primates; Catarhini; Homidae; Homo.
TITLE				National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
JOURNAL				Unpublished (1997)
COMMENT				Contact: Robert Strausberg, Ph.D. Email: cgsbs@remail.nih.gov Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.
FEATURES				CDNA Library Preparation: M. Bento Soares, Ph.D. DNA Sequencing by: Washington University Genome Sequencing Center
source				Clone distribution: NCI CGAP clone distribution information can be found through the T. M. A. G. E. Consortium/LLNL at: www-bio.llnl.gov/bbpr/Image/image.html
				Insert Length: 67-77 Std Error: 0.00
				Seq Primer: -40up from GlboC High quality sequence stop: 411.
				Location/Qualifiers
			1..433	
			/organism="Homo sapiens"	
			/db_xref="taxon:9606"	
			/clone_id="IMAGE:874045"	
			/tissue_type="adenocarcinoma"	
			/lab_host="DH10"	
			/note="Organ: colon; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; 1st strand cDNA was prepared from colon adenocarcinoma, and was then primed with a Not I - oligo(dT) primer. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library is normalized. Library was constructed by Bento Soares and M. Fatima Bonaldo."	
BASE COUNT	127	a	91 c	139 g
ORIGIN				76 t
Query Match				40.3%; Score 409; DB 9; Length 433;
Best Local Similarity				99.8%; Pred. No. 7, 1e-101; Indels 1; Gaps 1;
Matches	420;	Conservative	0;	Mismatches 0; Indels 1; Gaps 1;
QY	166	CTCTGGGGAAAGGGACATACTGGGCTCATCTGACTCCACACTGCACGCC	225	C 374
Db	433	CTCTGGGGAAAGGGACATACTGGGCTCATCTGACTCCACACTGCACGCC	225	C 374
QY	226	-TGTACTCTCTCTCACACCTCTGGCGCTGTCGACATCGCCCTACAGCGGT	284	284
Db	373	ATGTAATCTCTCTCACACCTCTGGCGCTGTCGACATCGCCCTACAGCGGT	314	314
QY	285	CCCGGGATGCTGTAACCTCTGGCATCCAGCAAGGCCATCTCTTGCGGCCGATG	344	344
Db	313	CCCGGGATGCTGTAACCTCTGGCATCCAGCAAGGCCATCTCTTGCGGCCGATG	254	254
QY	345	ATCGAGACCTTCCTGTTTCACTTTCCTGGTCACAGAAATGTCCTCTCTGGTGTATG	404	404
Db	253	ATCGAGACCTTCCTGTTTCACTTTCCTGGTCACAGAAATGTCCTCTCTGGTGTATG	194	194
QY	405	TCTCTATGATGCTGACGCCATCTGGCAACCCCTGGATATTGGCCATGACCTGG	464	464
Db	193	TCTCTATGATGCTGACGCCATCTGGCAACCCCTGGATATTGGCCATGACCTGG	134	134
QY	465	AGAGTCGCTACCCCTGGGGACTCTCTGGACCACTGGTCCTTTATCTGGAT	524	524
Db	133	AGAGTCGCTACCCCTGGGGACTCTCTGGACCACTGGTCCTTTATCTGGAT	74	74
QY	525	CATCTTGTTGTTACTCTACCTTACCCCTCTGAGCCAGAAATTATGACTTTT	584	584
Db	73	CATCTTGTTGTTACTCTACCTTACCCCTCTGAGCCAGAAATTATGACTTTT	74	74
QY	585	T 585		

215	TGCAAGCCCCC-TGTACTCTCTCTCACACTGGGGTCACGACATCSCCTAAGCC	273	OY	116 GGATTCAAGTGCTCTCTTGGGCTTCTCCCTGTCACGGCTTCACCCGCTGGGA	175
380	TCCACACCCTCATGFACTCTCTCACCTGGCTGTCGACATCGCTACACCC	439	Db	1 GATTCAGATGCTCTCTTGGGCTTCTCCCTGTCACGGCTTCACCCGCTGGGA	60
274	GCAACACSTGCCCCGGATGCTGAACTCTGCAACCAAGCCCATCTCGT	333	OY	176 AGGGACATCATCTGGGCTCATCTACTGGACTCAGTCAGCTGAGGCC	234
440	GCAACACSTGCCCCGGATGCTGAACTCTGCAACCAAGCCCATCTCGT	499	Db	61 ATGGGACCATCTGGGCTCATCTACTGGACTCAGTCAGCTGAGGCC	120
334	GGGGCGATGATCAGACGCTCTGTTCCACTTGTGACAGATGCTCC	393	OY	235 TCTCTCACACTGGGGTGTGACATGCCTAGCTGCAACACGGTGC	294
620	TCTGGCTGAGAGTCACCCCTGCTGACCTCCACTCTGACGTGTC	513	Db	121 TCCTCAACACTGGCGTGTCAACATGCCATAGCC	180
620	TCTGGCTGAGAGTCACCCCTGCTGACGTGTC	679	OY	295 TGTTGACCTCTGATCAGCCAGCCATCTGGGGCTGGGCGGAGACT	354
394	TGGGTGTATGCTATGATCTGTACGGCGCATCTGCCACCCCTCGAT	453	Db	181 TGGTGAACCTCTGGGCTCATCTGCTGACATAGACCT	240
560	TGGGTGTATGCTATGCTACGGCGCATCTGCCACCCCTCGAT	619	OY	355 TTCTGTTTCAACTTGTGTTGACAGATGTCCTCTCTGCTG	414
454	TCTGACCGGGAGACTCTGCAACCCCGCGTGACTCTGGGACACTG	59	Db	241 TTCTTCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	300
514	TATCTGTATCAGCTGTTACTCTACCTTACCTTCTGTA	565	OY	415 TGTACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	474
680	TGGCTCTGGCCCATGTGGTCATCCATAGCTGCGCTTC	731	Db	301 GTTAACTGTCATCCTGGCCACCTCTGGCTATGCG	360
RESULT 11			OY	475 TCACCTGGGGTACTCTGGACACTGGAGCTTTATCTGTGTC	534
REF543056	B5543056	580 bp mRNA linear EST 09-AUG-2000	Db	361 TCACCTGGGGTACTCTGGACATGCTGAGCC	420
DEFINITION	61106885F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3455324	5,	OY	535 TACTCTACCTTACCTCTGTAGGCCAGAAATTATCA	594
ACCESSION	BB543056	mRNA sequence.	Db	421 TCACCTAACACTGCCTTGTAGGCCATGCAAC	479
AUTHORS	EST		OY	595 TTGGCTGTGCTCAACTTGTCTGTGAGTACCCACAT	654
JOURNAL	Contact: Robert Strausberg, Ph.D.		Db	480 CTGCTGTCCTCAGGTGTGCCTGTGATACCTGGCTAAC	539
COMMENT	National Institutes of Health, Mammalian Gene Collection (MGC)		OY	655 GGAGCATTC	665
FEATURES	Email: cgaps-remail.nih.gov/		Db	540 CCTGATGTC	550
SOURCE	NIH-MGC http://mgc.ncbi.nlm.nih.gov/				
1	(bases 1 to 580)				
Homo sapiens	Mammalia; Eutheria; Primates; Cetartiodactyla; Hominoidea; Homo.				
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;					
Mammalia; Eutheria; Primates; Cetartiodactyla; Hominoidea; Homo.					
Homo sapiens					
High quality sequence start: 3					
High quality sequence stop: 580.					
Location/O qualifiers					
1. - .580					
/organism="Homo sapiens"					
/clone="IMAGE:3455324"					
/db_xref="taxon:9606"					
/issue_type="cervical carcinoma cell line"					
/lab_host="BHL0B"					
note="Organ: cervix; Vector: PCMV-SPORT6; site_1: NotI; Site_2: SalI; Cloned unidirectionally. Primer: Oligo dT.					
Average insert size 1.4 kb. Library prepared by Life Technologies."					
Technologies,"					
189 a 189 c 125 g 170 t					
ORIGIN					
Query Match	35.4 %	Score 359; DB 10; Length 580;			
Best Local Similarity	80.6 %	Pred. No. 3-8a-87;			
Matches	444;	Conservative 0; Mismatches 105; Indels 2; Gaps 2;			
FEATURES					
1	Unpublished (1997)				
REFERENCE	Email: cgaps-remail.nih.gov/				
AUTHORS	Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.				
TITLE	CDNA Library Preparation: M. Bento Soares, Ph.D.				
JOURNAL	CDNA Library Arrayed by: Greg Lennon, Ph.D.				
COMMENT	CDNA Sequencing by: Washington University Genome Sequencing Center				
	Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at:				
	http://image.llnl.gov/				
	Plate: LIMM841 row: 1 column: 21				
RESULT 12					
AT340119/c					
LOCUS	AT340119				
DEFINITION	qk64f08 x1 NCI_CGAP_C08 Homo sapiens cDNA clone IMAGE:1873667	3			
VERSION	AT340119	367 bp mRNA linear EST 29-DEC-1998			
KEYWORDS	AT340119.1 GI:4077046				
ORGANISM	Homo sapiens				
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
	Mammalia; Eutheria; Primates; Cetartiodactyla; Hominoidea; Homo.				
	Homo sapiens				
High quality sequence start: 3					
High quality sequence stop: 580.					
Location/O qualifiers					
1. - .580					
/organism="Homo sapiens"					
/clone="IMAGE:3455324"					
/db_xref="taxon:9606"					
/issue_type="cervical carcinoma cell line"					
/lab_host="BHL0B"					
note="Organ: cervix; Vector: PCMV-SPORT6; site_1: NotI; Site_2: SalI; Cloned unidirectionally. Primer: Oligo dT.					
Average insert size 1.4 kb. Library prepared by Life					
Technologies,"					
189 a 189 c 125 g 170 t					
ORIGIN					
Query Match	35.4 %	Score 359; DB 10; Length 580;			
Best Local Similarity	80.6 %	Pred. No. 3-8a-87;			
Matches	444;	Conservative 0; Mismatches 105; Indels 2; Gaps 2;			
FEATURES					
1	Unpublished (1997)				
REFERENCE	Email: cgaps-remail.nih.gov/				
AUTHORS	Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.				
TITLE	CDNA Library Preparation: M. Bento Soares, Ph.D.				
JOURNAL	CDNA Library Arrayed by: Greg Lennon, Ph.D.				
COMMENT	CDNA Sequencing by: Washington University Genome Sequencing Center				
	Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at:				
	http://image.llnl.gov/bioprj/image/image.html				
	Seq primer: -40UP from Gioco				
	High quality sequence stop: 245.				
	Location/O qualifiers				

/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:187377"
/clone.lib="NCI_CGAM_Co8"
/tissue_type="adenocarcinoma"
/lab_host="DH10B"
/note="Organ: colon; Vector: PT73D-Pac (Pharmacia) with a
modified polylinker; 1st strand cDNA was prepared from
colon adenocarcinoma, and was then primed with a Not I -
oligo(dR) primer. Double-stranded cDNA was ligated to Eco
Fax: 314 286 1810
Email: est@wustl.wustl.edu
Insert Size: 1857
High quality sequence stops: 304
Source: IMAGE Consortium, LNL
This clone is available royalty-free through LNL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Insert Length: 1867 Std Error: 0.00
Seq Primer: M13RP
High quality sequence stop: 304.

Fax: 314 286 1810
Email: est@wustl.edu
Insert Size: 1867
High quality sequence stops: 30
Source: IMAGE Consortium, LUMI
This clone is available royalty free
IMAGE Consortium (info@image.llnl.gov)
Insert Length: 1867 Std Error:
Seq primer: M13R1
High quality sequence stop: 304

--free through LLNL; www.llnl.gov) for further information.

contact the formation.

FEATURES	Location/Qualifiers
source	1. .426

Location/Qualifiers

BASE COUNT	115	a	Bento Soares	and M.	Ratina Bonaldo.	"	"
ORIGIN	73	c	116	g	63	t	Bonaldo.

Query Match 35.0%; Score 355; DB 9; Length 367;
 Best Local Similarity 100.0%; Pred. No. 3.9e-86;
 Matches 355; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

231 TTTCTTCCTCAGACCTGGGGTGTGAGATCGCTAACCGGTTGCCCGG 290
 ||||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 367 TCTTCCTCTCACACTTGGGGTGTGACATCGCTAACCGGTTGCCCGG 308

```

411 GAGCISAGGCGGATCCGGGACCACTGGGAGCTCCCTTATTCCTTGATGATCTT 530
412 ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| 470
187 GATCTGTGAGGCCATCTGCACCCCTCGGATATTGCCATCTGACTGGAGACTC 128

```

531 GGTGTTACTTCCTACCCCTTGTAGSCCCCAGAAAATTATCACTTTTTT 585
532 ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
533 TCATACACCCCTGGGGTGACTTCTCTGACCCTGGAGTCCTTACCTGATCATCTT 68

67 GGTACTCTACCTTACCCCTCTGAGGCCAGAAATTATCAGTTTTT 13

RESULT 13
52441 H62441 426 bp mRNA linear EST 06-OCT-1995
OCUS YR79Q08.r1 Soares fetal liver spleen 1NF1S Homo sapiens cDNA clone
ERINITION

IMAGE:211503 5 , similar to SP:OLF7_MOUSE P34984 OLFACTORY RECEPTOR-LIKE PROTEIN K7 ;, mRNA sequence.4984
ACCESSION H62441
VERSION H62441.1
KEYWORD EST.
EST.

ORGANISM	SOURCE
Homo sapiens	human.

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarhini; Hominoidea; Homo; Sapiens.

REFERENCE 1 (bases 1 to 426)

AUTHORS Becker, M., Bonaldo M.F., Chiarapelli, B., Hawkins, L., Lennon, G., Nierlich, N., Obregon, T., Ravaudo, J.

M. Hultman, M. Kucaba, T. Lucy, M. Le, M. Le, N. Mardis, E. Moore

B., Morris, M., Parsons, J., Prange, C., Rifkin, L., Rohlfing, T.,

Scheibenbogen, K., Soames, M.B., Tan, F., Thierry-Mieg, J., Trevisakis, E., Tschewold, K., Wahmann, D., Waterston, R., Wilson, B., and Marras, M.

TITLE Generation and analysis of 280,000 human expressed sequence tags.

JOURNAL OF GENOME RESEARCH

COMMENT
MEDLINE
97044478
Contract: wilson RK

Washington University School of Medicine

Forest Park Parkway, Box 8501, St. Louis, MO 63108

UI-E-DW1-ahc-b-11-0-UI 3', mRNA sequence.

ACCESSION BM670360
VERSION BM670360.1
SOURCE EST.

ORGANISM Homo sapiens
human.

REFERENCE 1
(bases 1 to 623)
AUTHORS Bonaldo, M.; Lennon, G. and Soares, M.B.
TITLE Normalization and subtraction: two approaches to facilitate gene discovery

JOURNAL Genome Res. 6 (9), 791-806 (1996)

MEDLINE 9704477
COMMENT Contact: Soares, MB
program for Rat Gene Discovery and Mapping
University of Iowa
451 Eckstein Medical Research Building Iowa City, IA 52242, USA
Tel: 319 335 8250
Fax: 319 335 9565
Email: msoares@blue.weeg.uiowa.edu

Tissue Procurement: Dr. Gregg Hageman
cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Researchers may obtain clones from Research Genetics (www.resgen.com).
The following repetitive elements were found in this cDNA
sequence: 95-137, >AT rich<#gt; complexity (matched complement)
152-189, >(CAN)n<#gt; simple repeat (matched complement)
Seq primer: M13 Forward
POLY-A-Yes

FEATURES SOURCE

Location/Qualifiers

1. 623
<#gt;/organism="Homo sapiens"
<#gt;/clone_id="UI-E-DW1-ahc-b-11-0-UI"
<#gt;/tissue_type="lens"
<#gt;/dev_stage="adult"
<#gt;/lab_host="DH10B (Life Technologies) (T1 Phage resistant)"
<#gt;/note="Organ: eye; Vector: pRT3-Pac (Pharmacia) with a modified polylinker; Site 1: EcoR I; Site 2: Not I."
UI-E-DW1 is a normalized cDNA library containing the following tissue(s): lens. The library was constructed according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo dT primer containing a Not I site. Double stranded cDNA was ligated to an Eco I adaptor, digested with Not I, and cloned directionally into pRT3-pac vector. The oligonucleotide used to prime the synthesis of first-strand cDNA contains a library tag sequence that is located between the Not I site and the (dn)18 tail. The sequence tag for this library is CGATTAGCGA. This library was created for the program, Gene Discovery in the Visual System, supported by National Eye Institute (NEI).

TAG LIB="UI-E-DW1"
TAG TISSUE="human lens"
TAG SEQ="CATTTAGCGA"

BASE COUNT ORIGIN

148 a 159 c 107 g 209 t

RESULT 15

ACCESSION A1285267/c
LOCUS A1285267 361 bp mRNA
DEFINITION q138c08_x1 NCI_GAP_C08 Homo sapiens cDNA clone IMAGE:1876053' similar to SW:OMR7_MOUSE_P34984 OLFACTORY RECEPTOR-LIKE PROTEIN K7 ; mRNA sequence.

VERSION A1285267
KEYWORDS A1285267.1 GI:3923500
SOURCE EST.

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Cetartiodactyla; Hominidae; Homo.

REFERENCE 1
(bases 1 to 301)
AUTHORS NCI-CGAP
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
COMMENT Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgaps@mail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-GAP clone distribution information can be found through the T.M.A.G.B. Consortium/LINL at: www-bioline.nigov/bdrp/image/image.html
Insert Length: 639 Std Error: 0.00
Seq primer: -40UP from Gibson
High quality sequence stop: 26.
Location/Qualifiers

1. .361
<#gt;/organism="Homo sapiens"
<#gt;/clone_id="NCI_GAP_C08"
<#gt;/tissue_type="adenocarcinoma"
<#gt;/lab_host="DH10B"
<#gt;/note="Organ: colon; Vector: pRT3D-Pac (Pharmacia) with a modified polylinker; 1st strand cDNA was prepared from colon adenocarcinoma, and was then primed with a Not I - oligo(dT) primer. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pRT3 vector. Library is normalized. Library was constructed by Bento Soares and M. Fatima Bonaldo."

BASE COUNT	115 a	73 c	110 g	63 t
ORIGIN				
Query Match	33.38;	Score 337.4;	DB 9;	Length 361;
Best Local Similarity	96.98;	Pred. No. 2.5e-81;		
Matches	344;	Conservative	0;	Mismatches 11; Indels 0; Gaps 0;
QY	231	TTCTTCCTCTCACACCTGGCGCTCGTGACATCGCCTACGCCGACAGGTTGGCCCG	290	
Db	351	TTTCCCTCACACCGGGCGTTGACATTGCGCTACGCTGCAACACGGTGTCCCCGG	302	
QY	291	ATGCTGGGAACTCCGCAAGGCACATCCGCAAGGCCATCTCCCTGGGGCGCATATGCG	350	
Db	301	ATGCTGGGAACTCCGCAAGGCCATCTCCCTGGGGCGCATATGCG	242	
QY	351	ACCTTTCGTTTCACTTTCGTCACACAAATGTCCTCCCTGGGATCTCTAT	410	
Db	241	ACCTTTCGTTTCACTTTCGTCACACAAATGTCCTCCCTGGGATCTCTAT	182	
QY	411	GATCTGTAAGTGGCACTCTGCCACCCCTCGATATTGCCATCATGACCTGGAGAGTC	470	
Db	181	GATCTGTAAGTGGCACTCTGCCACCCCTCGATATTGCCATCATGACCTGGAGAGTC	122	
QY	471	TGATCTACCTGGGGGACTCTGGACCTTGAGGCCAGAAATTATCACTTTT	530	
Db	121	TGATCTACCTGGGGGACTCTGGACCTTGAGGCCAGAAATTATCACTTTT	62	
QY	531	GIGTACTCTACCTTGACCTCTGGAGCCAGAAATTATCACTTTT	585	
Db	61	GIGTACTCTACCTTGACCTCTGGAGCCAGAAATTATCACTTTT	7	

Search completed: May 2, 2003, 06:14:26
 Job time : 1553 secs



Gencore version 5.1.4-p5_4578
 copyright (c) 1993 - 2003 Compugen Ltd.

score greater than or equal to the score of the result being printed,
 and is derived by analysis of the total score distribution.

OM nucleic - nucleic search, using sw model

Run on: May 2, 2003, 04:33:51 ; Search time 2809 seconds

(without alignments)
 10505.605 Million cell updates/sec

Title: US-09-898-586-23

Perfect score: 1014

Sequence: 1 taaacacttcttaaacca.....tatggcattgtgactgtacaa 1014

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters:

4109280

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : GenEmbl:
 1: gb_ba: *
 2: gb_htg: *
 3: gb_in: *
 4: gb_on: *
 5: gb_ov: *
 6: gb_pat: *
 7: gb_Ph: *
 8: gb_Pl: *
 9: gb_pr: *
 10: gb_ro: *
 11: gb_sts: *
 12: gb_sy: *
 13: gb_un: *
 14: gb_v1: *
 15: em_ba: *
 16: em_fun: *
 17: em_hum: *
 18: em_in: *
 19: em_mu: *
 20: em_on: *
 21: em_or: *
 22: em_ov: *
 23: em_pat: *
 24: em_ph: *
 25: em_Pl: *
 26: em_ro: *
 27: em_sts: *
 28: em_un: *
 29: em_v1: *
 30: em_htg_hum: *
 31: em_htg_inv: *
 32: em_htg_other: *
 33: em_htg_mus: *
 34: em_htg_Pl: *
 35: em_htg_rnd: *
 36: em_htg_mam: *
 37: em_htg_vrt: *
 38: em_sy: *
 39: em_htgo_hum: *
 40: em_htgo_mus: *
 41: em_htgo_other: *

SUMMARIES

Result No.	Score	Query	%	Match Length	DB ID	Description
c 1	1014	100.0	1014	6	AX197458	AX197458 Sequence
c 2	990	97.6	130030	9	AC004889	AC004889 Homo sapi
c 3	987.4	97.4	1012	6	AX197456	AX197456 Sequence
c 4	983.6	97.0	1040	6	AX197438	AX197438 Sequence
c 5	983.6	97.0	1040	6	AX197469	AX197469 Sequence
c 6	983.6	97.0	59130	9	AL135904	AL135904 Human DNA
c 7	983.6	97.0	140915	9	AC005587	AC005587 Homo sapi
c 8	983.6	97.3	974	6	AX07373	AX07373 Sequence
c 9	905.4	80.3	930	6	AX242191	AX242191 Sequence
c 10	903.6	89.1	933	6	AX151262	AX151262 Sequence
c 11	900.6	88.8	930	6	AX241442	AX241442 Sequence
c 12	900.6	88.8	930	6	AX241473	AX241473 Sequence
c 13	675	66.6	104955	9	AC091768	AC091768 Homo sapi
c 14	645.4	63.6	104956	2	AC091746	AC091746 Mus muscu
c 15	637.4	62.9	650	9	AF399598	AF399598 Homo sapi
c 16	622	61.3	933	10	AY073444	AY073444 Mus muscu
c 17	573.2	56.5	933	10	AY073100	AY073100 Mus muscu
c 18	549.8	54.2	1262	6	AX168421	AX168421 Sequence
c 19	546.6	53.9	66610	9	AC074386	AC074386 Homo sapi
c 20	545	53.7	13165	9	AB065692	AB065692 Homo sapi
c 21	535.4	52.8	930	6	AX242188	AX242188 Sequence
c 22	519.8	51.3	813	5	AC51240	AC51240 Sequence
c 23	518.4	51.1	1792	6	AX08369	AX08369 Sequence
c 24	517.8	51.1	993	6	AX242190	AX242190 Sequence
c 25	509.8	50.3	992	6	AX451241	AX451241 Sequence
c 26	508.8	50.2	542	6	AX451242	AX451242 Sequence
c 27	481.2	47.5	1713	6	AR024243	AR024243 Sequence
c 28	458	45.2	109838	2	AC120563	AC120563 Rattus no
c 29	444.4	43.8	162320	2	AC076959	AC076959 Homo sapi
c 30	442.2	43.6	667	10	MUSDORICA	L14566 Mouse (K7)
c 31	441.8	43.6	967	10	AY073724	AY073724 Mus
c 32	440.2	43.4	965	10	AY073723	AY073723 Mus muscu
c 33	440.2	43.4	147341	2	AC06354	AC06354 Rattus no
c 34	437.8	43.2	109838	2	AC07838	AC07838 Homo sapi
c 35	430	42.4	933	10	AY073820	AY073820 Mus muscu
c 36	429.5	42.4	575	10	AY242035	AY242035 Sequence
c 37	426.8	42.1	1357	9	AB065695	AB065695 Homo sapi
c 38	423.8	41.8	942	10	AY073443	AY073443 Mus muscu
c 39	423.6	41.8	162320	2	AC076959	AC076959 Homo sapi
c 40	410.4	40.5	424	6	AX451249	AX451249 Sequence
c 41	409.6	40.4	1334	9	AB065480	AB065480 Homo sapi
c 42	409.6	40.4	130030	9	AC008899	AC008899 Homo sapi
c 43	409.2	40.4	942	6	AX241995	AX241995 Sequence
c 44	409.2	40.4	1207	9	AB065691	AB065691 Homo sapi
c 45	407.6	40.2	1333	9	AB065693	AB065693 Homo sapi

ALIGNMENTS

Pred. No. is the number of results predicted by chance to have a

REFERENCE 1 (bases 1 to 1014)
 AUTHORS Padigaru,M., Prayaga,S.K., Taupier,R.J., Mishra,V., Tchernev,V.T., Spytek,K.A. and Li,L.
 TITLE Odorant receptor polypeptides and nucleic acids encoding same

ACCESSION	AX197438	Db	
VERSION	AX197438.1	Gr	15387828
KEYWORDS		OY	780 CCACCTCTGTTGATGGACTCTTATGCGACAGGAAAGCCATTGCGACCTGCTTC
ORGANISM	human.	Db	807 CCACCTCTGTTGATGGACTCTTATGCGACAGGAAAGCCATTGCGACCTGCTTC
	Homo sapiens	OY	840 ATATGGGAACCCCAAGGAGCAGAAGAAATCTCTGCCTCACAGCCTTAATC
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		Db	867 ATATGGGAACCCCAAGGAGCAGAAGAAATCTCTGCCTCACAGCCTTAATC
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.		OY	900 CATGCCATCCCTATCTGACTCTTGAAGTCACTGAGTGAGAAGAACTCTTG
REFERENCE	I (bases 1 to 1040)	Db	926 9959
AUTHORS	Padiaru,M., Prayag,S.R., Taupier,R.J., Mishra,V., Tchernev,V.T.,	OY	927 CATGTCATCCCTPATCTGAGCTTAGAGACAGAGTGAGAAGAACTPTGAGAG
TITLE	Spytek,K.A. and Li,L. Odorant receptor polypeptides and nucleic acids encoding same	Db	986
JOURNAL	Patent: WO 0151632-A 3 19-JUL-2001; Curagen Corporation (US)	OY	960 ACTGCGGGACTAGAAGGGCTTATGAAAGGATATGCGATGTGACTGACA
FEATURES	source	Db	987 ACTGCGGGACTAGAAGGGCTTATGAAAGGATATGCGATGTGACTGACA
	1..1040	/organism="Homo sapiens"	1013
BASE COUNT	229 a 285 c 221 g 305 t	ORIGIN	
Query Match	97.0%	Score	983.6
Best Local Similarity	99.4%	DB	6
Matches 1008; Conservative	0;	Length	1040;
		LOCUS	AX197469
		DEFINITION	Sequence 34 from patent WO151632.
QY	1 TAACACTCTCTAAACCATGAGCATTAACCTGTTGTTCTCTCATAGGATATGGG	VERSION	AX197469
Db	28 TAACACTCTCTAAACCATGAGCATTAACCTGTTGTTCTCTCATAGGATATGGG	KEYWORDS	
QY	61 GACAATTAATCCATCACAGAGTCACTGGTTCTACTGGGTTCCGGTCCAGGTT	ORGANISM	Homo sapiens
Db	88 GACATATAAACCTCATGAGAGTCTCTACGGATTCCGGTCCAGGATT		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
QY	121 CAGATGCTCTCTTGGCTCTCTGGCTCTCTGGGAAACGG		Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
Db	148 CAGATGCTCTCTGGCTCTCTGGCTCTCTGGGAAACGG		REFERENCE I (bases 1 to 1040)
QY	181 ACCATACTGGGCTCATCTACTGGACTCCAGACTGACGGCCCTACGGG-TGTA		AUTHORS Padiaru,M., Prayag,S.R., Taupier,R.J., Mishra,V., Tchernev,V.T.,
Db	208 ACCATACTGGGCTCATCTACTGGACTCCAGACTGACGGCCCTACGGG		
QY	240 TCACACCTGGGCTGTCGAGATCGCTACGCCCTGCAACAGGGTCCCAGCTGG		
Db	268 TCACACCINGGGCTGTCGAGATCGCTACGCCCTGCAACAGGGTCCCAGCTGG		
QY	300 AACCTCTGCAATCCACCAACCCACCTCTTGGGGCGCATATGCGACCTTGG		
Db	328 AACCTCTGCAATCCACCAACCCACCTCTTGGGGCGCATATGCGACCTTGG		
QY	360 TTTCACCTTGTGCTCACAGAAATCTCTCCCGGGTGTGATGTCATGTC		
Db	388 TTTCACCTTGTGCTCACAGAAATCTCTCCCGGGTGTGATGTCATGTC		
QY	420 GGCGCATCTCACCCCGCTCGATATTGGCCCATCATGAGCTGAGCTCATC		
Db	448 GTGCCATCTGCCACCCCTCGCATGATTCGCCATCATGAGCTGAGCTGCC		
QY	480 CTGGCGGGACTCTCTGGACCACTGGAGCTTATCTGTTGATCTGTTACT		
Db	508 CTGGCGGTGCTCTCCCTGGACACTGGATCTCTTTCCTGATCTGTC		
QY	540 CTACCTCTACCTCTAGGCCCGAGAAATTACACTTGTGAAACCTTG		
Db	568 CTACCTCTACCTCTAGGCCCGAGAAATTACACTTGTGAAACCTTG		
QY	600 TGTCTCTAACCTCTGGCTGGAGATACCACTCATGAGACAGCTGGCTGG		
Db	627 TGTCTCTAACCTCTGGCTGGAGATACCACTCATGAGACAGCTGGCTGG		
QY	660 AATTCCTGGCTGGAGACCTCTGACATGAGATCTGGCTGGAGACCTTG		
Db	687 AATTCCTGGCTGGAGACCTCTGACATGAGATCTGGCTGGAGACCTTG		
QY	720 TGCTATCCTTAGATCAAATAGGAAAGTCTGAGGAAAGGCTTGTGCTTC		
BASE COUNT	229 a 285 c 221 g 305 t	ORIGIN	
Query Match	97.0%	Score	983.6
Best Local Similarity	99.4%	DB	6
Matches 1008; Conservative	0;	Length	1040;
		LOCUS	AX197469
		DEFINITION	Sequence 34 from patent WO151632.
QY	1 TAACACTCTCTAAACCATGAGCATTAACCTGTTGTTCTCTCATAGGATATGGG	VERSION	AX197469.1
Db	28 TAACACTCTCTAAACCATGAGCATTAACCTGTTGTTCTCTCATAGGATATGGG	KEYWORDS	
QY	61 GACAATTAATCCATCACAGAGTCACTGGACTCCAGCTGGGTTCCGGTCCAGGTT	ORGANISM	Homo sapiens
Db	88 GACATATAAACCTCATGAGAGTCTCTACGGATTCCGGTCCAGGATT		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
QY	121 CAGATGCTCTTGGCTCTGGCTCTGGCTCTGGCTCTGGCTCTGG		Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
Db	148 CAGATGCTCTTGGCTCTGGCTCTGGCTCTGGCTCTGGCTCTGG		REFERENCE I (bases 1 to 1040)
QY	181 ACCATACTGGGCTCATCTACTGGACTCCAGCTGGAGCTGAGCTGAGCT		AUTHORS Padiaru,M., Prayag,S.R., Taupier,R.J., Mishra,V., Tchernev,V.T.,
Db	208 ACCATACTGGGCTCATCTACTGGACTCCAGCTGGAGCTGAGCT		
QY	240 TCACACCTGGGCTGTCGAGATCGCTACGCCCTGCAACAGGGTCCCAG		
Db	268 TCACACCINGGGCTGTCGAGATCGCTACGCCCTGCAACAGGGTCCCAG		
QY	300 AACCTCTGCAATCCACCAACCCACCTCTGGGGCGCATATGAGACCT		
Db	328 AACCTCTGCAATCCACCAACCCACCTCTGGGGCGCATATGAGACCT		
QY	360 TTTCACCTTGTGCTCACAGAAATCTCTCCCGGGTGTGATGTC		

QY	448	GTTGGCCATCCTGCGCAAGAGTGTCTCTGGGGATGTCATGATCTGPAC	447
QY	420	GTTGGCCATCCTGCGCAAGAGTGTCTCTGGGGATGTCATGATCTGPAC	479
QY	480	CTCGCGGTGACTCTGGACACTGGAGCTTATGCCCATGACCTGGAGAGTCATGCC	507
QY	508	CTCGGGGTGACTCTGGACACTGGAGCTTATGCCCATGACCTGGAGAGTCATGCC	567
QY	540	CTAAGTTCACCTTGAGGCCAGAAATTATCACTTTTGAGAACATCTPSC	599
Db	568	TGTTCTCAACTTGCTGAGCACATGAGAACATGGCTTGCGGGAGC	626
Db	600	TGTTCTCAACTTGCTGAGCACATGAGAACATGGCTTGCGGGAGC	659
Db	627	TGTTCTCAACTTGCTGAGCACATGAGAACATGGCTTGCGGGAGC	685
Db	660	AATTCCTGCGCTGGGGACCTTGTCACAAATGTGATTTTCATAATGTGCACTCTC	719
QY	687	AATTCCTGCGCTGGGGACCTTGTCACAAATGTGATTTTCATAATGTGCACTCTC	746
QY	720	TGCTAACCTGAGTCATCAAGGAATCTAGGAGATCTAGGAGAAGGCCTCCGACCGCTTC	779
Db	747	TGCTAACCTGAGTCATCAAGGAATCTAGGAGATCTAGGAGAAGGCCTCCGACCGCTTC	806
QY	780	CCACCTCTGTTGAGCCAGAACATTAATCAGGAGAACATTCAGGAGAAGGCCTCCGACCGCTTC	839
Db	807	CCACCTCTGTTGAGCCAGAACATTAATCAGGAGAACATTCAGGAGAAGGCCTCCGACCGCTTC	866
QY	840	ATATGGGAAAGCCAAAGGAGAGAAATPTCTGCTGTTACACGCTCTTAATCC	899
Db	867	ATATGGGAAAGCCAAAGGAGAGAAATPTCTGCTGTTACACGCTCTTAATCC	926
QY	900	CATGTCATCCCTATCGTACTCTGGAACTCAGAGTGAAGATCTTGAGA	959
Db	927	CATGTCATCCCTATCGTACTCTGGAACTCAGAGTGAAGATCTTGAGA	986
QY	960	AGTGTGGGGTAGAAGGGCTTATGAAGAGGTATGGCATGTGACTGACA	1013
Db	987	AGTGTGGGGTAGAAGGGCTTATGAAGAGGTATGGCATGTGACTGACA	1040
RESULT 6			
LOCUS	AL135904.4	PRI 20-JUL-2000	
DEFINITION	Human DNA sequence from clone RP5-1005H11 on chromosome 6 Contains part of the gene for a 7 transmembrane receptor (rhodopsin family) (olfactory receptor like) protein, the gene for wuSC:H_DJ0988G15.3 protein, part of the PDNP3 (phosphodiesterase 1/nucleotide pyrophosphatase 3), gene, ESTs, STSs, STSS and GSSs, complete sequence.		
ACCESSION	AL135904		
VERSION	AL135904.11	GI:7159399	
KEYWORDS	HGNC, human.		
SOURCE	Homo sapiens		
ORGANISM			
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.		
AUTHORS	1 (bases 1 to 59130)		
TITLE	Direct Submission		
JOURNAL	Submitted (05-JUL-2000) Sanger Centre, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: humquery@sanger.ac.uk		
REQUESTS	cloneredquest@sanger.ac.uk		
COMMENT	On Mar 6, 2000 this sequence version replaced gi:7105768.		
Detailed Description	During sequence assembly data is compared from overlapping clones. Where differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above.		
This sequence has been finished according to sequence map criteria			
FEATURES			
Source			
repeat_region	1..59130	Location/Qualifiers	
	/organism="Homo sapiens"		
	/ab_xref="taxon:9606"		
	/chromosome="6"		
	/clone="RP5-1005H11"		
	/clone_lib="RPCT-5"		
	1..68		
	/note="Alus repeat: matches 1..68 of consensus"		
repeat_region	546..844		
	/note="Alujo repeat: matches 2..301 of consensus"		
repeat_region	870..940		
	/note="U4 repeat: matches 1..72 of consensus"		
repeat_region	1691..2905		
	/note="12 repeat: matches 1425..2737 of consensus"		
repeat_region	3457..3960		
	/note="HALL repeat: matches 420..971 of consensus"		
repeat_region	3971..4106		
	/note="MIRD repeat: matches 1..129 of consensus"		
repeat_region	4249..4282		
	/note="17 copies 2 mer tg 100% conserved"		
repeat_region	4966..5147		
	/note="AluJB repeat: matches 1..182 of consensus"		
repeat_region	5216..5307		
	/note="L2 repeat: matches 2405..2503 of consensus"		
repeat_region	5495..5794		
	/note="AlusX repeat: matches 1..296 of consensus"		
repeat_region	5891..6180		
	/note="AlusX repeat: matches 1..291 of consensus"		
repeat_region	7607..7618		
	/note="LMI repeat: matches 4856..4867 of consensus"		
repeat_region	7619..8347		
	/note="LPA16 repeat: matches 5421..6156 of consensus"		
repeat_region	8348..8898		
	/note="LMI repeat: matches 4866..5403 of consensus"		
repeat_region	9018..9866		
	/note="TIGGR1 repeat: matches 1..836 of consensus"		
repeat_region	9867..10189		
	/note="AlusX repeat: matches 1..309 of consensus"		
repeat_region	10190..1123		
	/note="TIGGR1 repeat: matches 836..2418 of consensus"		
repeat_region	12404..12715		
	/note="AlusX repeat: matches 1..312 of consensus"		
misc_feature	complement(13947..14176)		
	/note="match: GSS: Em:B74942"		
repeat_region	14280..14383		
	/note="AlusX repeat: matches 190..294 of consensus"		
repeat_region	15340..15508		
	/note="L2 repeat: matches 2563..2750 of consensus"		

NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.

MAPPING INFORMATION:
 The sequencing information of this clone was established as part of a mapping and sequencing collaboration between the NHGRI Chromosome 7 Mapping Project (Eric D. Green, Director), John D. McPherson in the Department of Genetics (Washington University), and the Washington University Genome Sequencing Center. For additional information about the map position of this sequence, see
<http://www.nhgri.nih.gov/DIR/RTB/Ch7/>, send
 mailto:egreen@hgri.nih.gov, or see <http://genome.wustl.edu/gsc>

SOURCE INFORMATION:
 This clone was derived from human PAC library RPCI-5, prepared by Pieter de Jong and coworkers at the Roswell Park Cancer Institute (<http://bacpac.med.buffalo.edu>) using the method described by Ioannou et al., Nature Genetics 6:84-9 (1994). The library is from one male donor.

The clone may be obtained either from Genome Systems, Inc. (<http://www.genomesystems.com>) or Research Genetics, Inc. (<http://www.resgen.com>); or from Pieter de Jong.

VECTOR: PCPAC2

NEIGHBORING SEQUENCE INFORMATION:
 Actual start of this clone is at base position 1 of RP5-988G15; actual end is at 110915 of RP5-988G15.

FEATURES

source	Location/Qualifiers
1..110915	/organism="Homo sapiens"
	/db_xref="RAXON:9606"
	/chromosome="7"
	/map="7q33-q35"
	/clone="RP5-988G15"
	/clone_id="RPCI-5"
repeat_region	13..2090
repeat_region	2097..2299
repeat_region	2300..2603
repeat_region	2604..4120
repeat_region	4123..4156
repeat_region	4168..4307
repeat_region	4308..4311
repeat_region	6635..6658
repeat_region	6829..7260
repeat_region	7261..7642
repeat_region	7643..7923
repeat_region	7982..8283
repeat_region	8286..8412
repeat_region	8413..8708
repeat_region	8709..8838
repeat_region	/rpt_family="Alu"
	/rpt_family="L1"

repeat_region	/rpt_family="MalR"	8840..8886
repeat_region	/rpt_family="AT_rich"	9111..9139
repeat_region	/rpt_family="TAAAn"	9204..9490
repeat_region	/rpt_family="Alu"	9645..9924
repeat_region	/rpt_family="Alu"	10286..10455
repeat_region	/rpt_family="L2"	10739..10838
repeat_region	/rpt_family="Mariner"	11127..11166
repeat_region	/rpt_family="L2"	11680..12154
repeat_region	/rpt_family="Alu"	12172..12211
repeat_region	/rpt_family="AT_rich"	12352..12469
repeat_region	/rpt_family="TACGn"	12488..12607
repeat_region	/rpt_family="(CAT)n"	12580..12733
repeat_region	/rpt_family="(TA)n"	12680..12777
repeat_region	/rpt_family="(CAT)n"	12778..13031
repeat_region	/rpt_family="Alu"	13226..13335
repeat_region	/rpt_family="L2"	15779..15520
repeat_region	/rpt_family="Alu"	15934..16022
repeat_region	/rpt_family="MalR"	16023..16332
repeat_region	/rpt_family="MER2_type"	16333..16371
repeat_region	/rpt_family="MalR"	16630..16742
repeat_region	/rpt_family="MalR"	16816..17068
repeat_region	/rpt_family="L1"	17088..17348
repeat_region	/rpt_family="L1"	17557..17979
repeat_region	/rpt_family="Alu"	18014..18506
repeat_region	/rpt_family="MalR"	18707..19081
repeat_region	/rpt_family="MalR"	19135..20171
repeat_region	/rpt_family="Retroviral"	20728..20748
repeat_region	/rpt_family="AT_rich"	21144..21599
misc_feature	/note="60S ribosomal protein L15 pseudogene"	21888..22279
repeat_region	/rpt_family="AT_rich"	22506..22540
repeat_region	/rpt_family="AT_rich"	22577..22583
repeat_region	/rpt_family="AT_rich"	23139..23162
repeat_region	/rpt_family="TAAAn"	23595..24012
repeat_region	/rpt_family="Alu"	24088..24128
repeat_region	/rpt_family="AT_rich"	24427..24849
repeat_region	/rpt_family="AT_rich"	24850..25147
repeat_region	/rpt_family="Alu"	25148..25173

Db	102384	ATATGGAAACCCANGAGGAGAGAATCTCTGCGTTCACAGCCCTTAATCC	102443
Qy	900	CATGTCATGCCCTATCTGTACTCTTAGGAACCTCAGAACGAGAAATCTTGAGAG	959
Db	102444	CATGTCATGCCCTATCTGTACTCTTAGGAACCTCAGAACGAGAAATCTTGAGAG	102503
Qy	960	AGTGTGGGAGTAGAAGGCCTTATGAAAGGATTATGGCATGTGACTGACA	1013
Db	102504	AGTGTGGGAGTAGAAGGCCTTATGAAAGGATTATGGCATGTGACTGACA	102557
RESULT	8		
AX078373	AX078373		
LOCUS	Sequence 41 from Patent WO0107612.	974 bp	DNA
DEFINITION			linear
VERSION	AX078373		PAT 22-FEB-2001
ACCESSION	AX078373.1		GI:13158042
KEYWORDS	human.		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrini; Hominidae; Homo.		
AUTHORS	1. (basses 1 to 974) Au-Young, J., Bandino, O., Tang, Y.T., Yue, H., Azimzai, Y., Burford, N., Baughn, M.R., Lu, D.A., Hillman, J.L., Patterson, C. and Lal, P.		
TITLE	Receptors and associated proteins		
JOURNAL	Patent: WO 0107612-A 41 01-FEB-2001;		
FEATURES	Inuyte Genomics, Inc. (US)		
SOURCE	1. .974 Location/Qualifiers /organism="Homo sapiens" '/db-xref="taxon:9606" '/note="Incyte ID No: 2279267CBL"		
BASE COUNT	206	a	270 c
ORIGIN			214 g 284 t
Query Match	92.3%	Score 936;	DB 6;
Best Local Similarity	99.8%	Pred. No. 5.5e-20;	Length 974;
Matches	958;	Conservative	0;
	Mismatches	2;	Indels 2;
	Gaps	2;	
Qy	55	ATGGGGACATATAACATCACAGAGTCCTCTACTGGATTGCCGTGGCCA	114
Db	1	ATGGGGACATATAACATCACAGAGTCCTCTACTGGATTGCCGTGGCCA	60
Qy	115	AGGATCAGATGCTCTCTGGCTCTCCGCTACAGCTTGACGCTTGACCCCTGGGG	174
Db	61	AGGATCAGATGCTCTCTGGCTCTCCGCTACAGCTTGACGCTTGACCCCTGGGG	120
Qy	175	AACGGGACCATACIGGGCTCATCTCACTGGACTCCAGACTGACGCCCATGACTIC	233
Db	121	AACGGGACCATACIGGGCTCATCTCACTGGACTCCAGACTGACGCCCATGACTIC	180
Qy	234	TTCCCTCTCACACCTGGGGTGTGACATGCCAACACGGTGCCCCGGATG	293
Db	181	TTCCCTCTCACACCTGGGGTGTGACATGCCAACACGGTGCCCCGGATG	240
Qy	294	CTGGCTGAACCTCCGCATCCAGCCAGGCCATCCTTGGGGCCGATGATGCCAGACC	353
Db	241	CTGGCTGAACCTCCGCATCCAGCCAGGCCATCCTTGGGGCCGATGATGCCAGACC	300
Qy	354	TTCTGTTTCACTTGTGTCACAGAATGCTCCCTGGGTGATGTCATGAT	413
Db	301	TTCTGTTTCACTTGTGTCACAGAATGCTCCCTGGGTGATGTCATGAT	360
Qy	414	CTGTAAGTGCCTCATGCCACCCCTCGATATTGGCCATCATGACCTGGAGAGTC	473
Db	361	CTGTAAGTGCCTCATGCCACCCCTCGATATTGGCCATCATGACCTGGAGAGTC	420
Qy	474	ATCACGCTCCGGTCACTCTGTGACCTGGAGCTCTTATCTGTATTCACCTGG	533
Db	421	ATCACGCTCCGGTCACTCTGTGACCTGGAGCTCTTATCTGTATTCACCTGG	480
RESULT	9		
AX242191	AX242191		
LOCUS	Sequence 939 from Patent WO127158.	930 bp	DNA
DEFINITION			linear
VERSION	AX242191		PAT 26-SEP-2001
ACCESSION	AX242191.1		GI:15799066
KEYWORDS	.		
ORGANISM	synthetic construct.		
REFERENCE	artificial sequences. (bases 1 to 930)		
AUTHORS	Bellinson,J., Smith,D., Lancet,D., Glusman,G., Fuchs,T. and Yanai,I.		
TITLE	Olfactory receptor sequences		
JOURNAL	Patent: WO 0127158-A 939 19-APR-2001; Digiscents (US); YEDA RESEARCH AND DEVELOPMENT COMPANY, LTD. (IL)		
FEATURES	1. .930 Location/Qualifiers /organism="synthetic construct" '/db-xref="taxon:32650" '/note="(H389789 nucleotide)"		
SOURCE			
BASE COUNT	192	a	266 c
ORIGIN			201 g 271 t
Query Match	89.3%	Score 905.4;	DB 6;
Best Local Similarity	99.7%	Pred. No. 1.9e-212;	Length 930;
Matches	928;	Conservative	0;
	Mismatches	1;	Indels 2;
	Gaps	2;	
Qy	55	ATGGGGACATATAACATCACAGAGTCCTCTACTGGATTCCCGTGGCCA	114
Db	1	ATGGGGACATATAACATCACAGAGTCCTCTACTGGATTCCCGTGGCCA	60
Qy	115	AGGATCAGATGCTCTCTGGCTCTCCGCTACAGCTTGACGCTTGACCCCTGGGG	174
Db	61	AGGATCAGATGCTCTCTGGCTCTCCGCTACAGCTTGACGCTTGACCCCTGGGG	120
Qy	175	AACGGGACCATACTGGGCTCATCTCACTGGACTCCAGACTGACGCCCATGACTC	233
Db	121	AACGGGACCATACTGGGCTCATCTCACTGGACTCCAGACTGACGCCCATGACTC	180

QY	234	TCTCTCTCACACTGGGGTCTCGACATCGCTGAAACAGGTGCCCGATG	293	/db_xref="taxon:32644"
Db	181	TCTCTCTCACACTGGGGTCTCGACATCGCTGAAACAGGTGCCCGATG	240	/note="PHORI-F5D6" 1. .933
QY	294	CCTGTGAACTCTCTGCAATCCAGCAAGCCACATCGCTGAAACAGGTGCCCGATG	353	/note="unnamed protein product" /codon_start=1 /protein_id="CAD3777-1"
Db	241	CCTGTGAACTCTCTGCAATCCAGCAAGCCACATCGCTGAAACAGGTGCCCGATG	300	/db_xref="GI:2169332" /translation="MGDNITSRFLIGFPYGRPRIOMLFLGLFSLFVFTLNGNTI LGISIDSRHAPMFPSFLAVDIAVACTNYPMLNLHAKPISFAGMMQPL FSTRAVTECILVMSYDLYVAUCHPMLYLAIMPWVLTAVTSWTFVGLVLSLH LLIPCPERPOKTYFPEFLAYLKLAADTHINENMVLLAGLSLGLVPLSTIVSM CLIRALQDOSREVKWRKFRTCFSHLICVGLVYTAJIMVYEPYGRBKEOKYLIF HSLEPNMLPLICSIRNSEVKNITKRVGVERA"
QY	301	TCTCTCTCACACTGGGGTCTCGACATCGCTGAAACAGGTGCCCGATG	360	
QY	414	CCTGTGAACTCTCTGCAATCCAGCAAGCCACATCGCTGAAACAGGTGCCCGATG	473	
Db	361	CCTGTGAACTCTCTGCAATCCAGCAAGCCACATCGCTGAAACAGGTGCCCGATG	420	
QY	474	ATCACCCCTGGGGTACTCTGCTGACACTTGCTGACCTGGAGTCCTTTCTCTGATCATCTG	533	BASE COUNT
Db	421	ATCACCCCTGGGGTACTCTGCTGACACTTGCTGACCTGGAGTCCTTTCTCTGATCATCTG	480	194 a 265 c 203 g 271 t
QY	534	TACTCTCACCTTACCCCTCTCTGAGGGACCTTGCTGACATGTTTGTGAAAT	593	ORIGIN
Db	481	TACTCTCACCTTACCCCTCTCTGAGGGACCTTGCTGACATGTTTGTGAAAT	539	
QY	594	CCTGTGAACTCTCTGCAATCCAGCAAGCCACATCGCTGAAACAGGTGCCCGATG	653	Query Match
Db	540	CCTGTGAACTCTCTGCAATCCAGCAAGCCACATCGCTGAAACAGGTGCCCGATG	599	Best Local Similarity
QY	654	CGGAGCAATTCTGGCTGGGGACCCCTGTCACATTCATGACTTCATATGTCAT	713	99.4%; Pred. No. 5.4e 21;
Db	600	CGGAGCAATTCTGGCTGGGGACCCCTGTCACATTCATGACTTCATATGTCAT	659	Mismatches
QY	714	CCTGTGAACTCTCTGCAATCCAGCAAGCCACATCGCTGAAACAGGTGCCCGATG	773	928; Conservative 0; Mismatches
Db	660	CCTGTGAACTCTCTGCAATCCAGCAAGCCACATCGCTGAAACAGGTGCCCGATG	719	4; Indels
QY	774	CTCTCTCACCTTCTGGCTGGGGTACTCTGCTGACACTTGCTGACATGTTTGTGAACT	833	2; Gaps
Db	720	CTCTCTCACCTTCTGGCTGGGGTACTCTGCTGACACTTGCTGACATGTTTGTGAACT	779	2;
QY	834	ACCCGATATGGGACCCCCAGGGCAGAGAAATATCCCTGCTGTCAGGCCRTT	893	121 AGGGGCACTACTGGGCTCATCTGACTSGACTCTGACTCAGCTGAGCCOCATGACTTC
Db	780	ACCCGATATGGGACCCCCAGGGCAGAGAAATATCCCTGCTGTCAGGCCRTT	839	115 AGGATCAGATGCTCTGGGCTCATCTGACTCAGCTGAGCTGAGCTGAGCCGG 174
QY	894	TAATCCATCCCATACTCCCTATCTGCTGACTCTTATGGCACAGCTTATCATGATGTTG	953	Db 61 AGGATCAGATCTCTCTTGGGCTCTCCCTGTTCTACGTTTCAACGTTGCTGG 120
Db	840	TAATCCATCCCATACTCCCTATCTGCTGACTCTTATGGCACAGCTTATCATGATGTTG	899	QY 55 ATGGGGACAAATACTACATCATCAGAGACTTCCTACTGGATTCCCGTGGCCA 114
QY	954	GAAGAGAGCTGGAGTAGAAAGGCTTA	984	Db 1 ATGGAGACAAATACTACATCATCAGAGACTTCCTACTGGATTCCCGTGGCCA 60
Db	900	GAAGAGAGCTGGAGTAGAAAGGCTTA	930	QY 175 AACGGGACAACTSGGGCTCATCTGACTCTGACTCAGCTGAGCCCCC-TGACTTC
RESULT 10			234	294 CTGGTGAACCTCTGCAATCCAGCAAGCCACATCGCTGAAACAGGTGCCCGATG
AX451262	AX451262	933 bp DNA	linear	PAT 03 - JUL - 2002
LOCUS	AX451262			Db 241 CCTGTGAACTCTCTGCAATCCAGCAAGCCACATCGCTGAAACAGGTGCCCGATG
DEFINITION	Sequence 1455 from Patent WO0214501.			QY 414 CTGTGAACTCTCTGCAATCCAGCAAGCCACATCGCTGAAACAGGTGCCCGATG
ACCESSION	AX451262			Db 361 CCTGTGAACTCTCTGCAATCCAGCAAGCCACATCGCTGAAACAGGTGCCCGATG
VERSION	AX451262.1			QY 474 ATCACCCCTGGGGTACTCTGCTGACACTTGCTGACCTGGAGTCCTTTATCTGATCATCTG
KEYWORDS				Db 421 ATCACCCCTGGGGTACTCTGCTGACACTTGCTGACCTGGAGTCCTTTATCTGATCATCTG
SOURCE				QY 534 TACTCTCACCTTACCCCTCTCTGAGGGACCCCTGTCACATGACTTCATCTG
ORGANISM	unclassified.			Db 481 TACTCTCACCTTACCCCTCTCTGAGGGACCCCTGTCACATGACTTCATCTG
REFERENCE	1. Hubert, R.S., Raitano, A.B., Faris, M., Challita-Bid, P.M., Ge, W. and Jakobovits, A.			QY 594 CCTGTGAACTCTCTGCAATCCAGCAAGCCACATCGCTGAAACAGGTGCCCGATG
AUTHORS	Nucleic acids and corresponding proteins entitled phori-all and phori-f5d useful in treatment and detection of cancer			Db 540 CCTGTGAACTCTCTGCAATCCAGCAAGCCACATCGCTGAAACAGGTGCCCGATG
JOURNAL	Patent: WO 0214501-A 1455 21-FEB-2002; Agensys, Inc. (US)			QY 654 CGGAGCAATTCTGGCTGGGGACCCCTGTCACATGACTTCATCTG
FEATURES	Location/Qualifiers			Db 600 CGGAGCAATTCTGGCTGGGGACCCCTGTCACATGACTTCATCTG
Source	1. .933			QY 714 CCTGTGAACTCTCTGCAATCCAGCAAGCCACATCGCTGAAACAGGTGCCCGATG
	/organism="unidentified"			Db 660 CCTGTGAACTCTCTGCAATCCAGCAAGCCACATCGCTGAAACAGGTGCCCGATG
				QY 774 CTCTCTCACCTTCTGGCTGGGGTACTCTGCTGACACTTGCTGACATGTTTGTGAACT
				Db 720 CTCTCTCACCTTCTGGCTGGGGTACTCTGCTGACACTTGCTGACATGTTTGTGAACT
				QY 834 ACCGAGATAGGGACCCCCAAGGGCAGAGAAATATCCCTGTCAGAGCTT
				899

Db	780	ACCCAGATATGGAACCCCAAGGACAGAAATTATCCTCTGTTTACGCCCTT	839	Db	481	TGTACTCTACCTTACCTRCTGTAGGCCAGAACATTATCAC-TTPTTGTGAAT	539
Qy	894	TAATCCCATGTCATACTCCCTATCTGTAGCTTAGAACCTCAGAAGTGAGAATCTT	953	Qy	594	CTGGGTGTCTCAAACTTGCTGTGGAGATACCACATCAGAACATGTCCTGGC	653
Db	840	TAATCCCATGTCATACTCCCTATCTGTAGCTTAGAACCTCAGAAGTGAGAATCTT	899	Db	540	CTGGGTGTCTCAAACTTGCTGTGGAGATACCACATCAGAACATGTCCTGGC	599
Qy	954	GAAGAGATGCTGGGAGTAGAAAGGCTTATGA	987	Qy	654	CGGACCATTTCTGGCTGGGGACCCCTGTCACACATGTTAGTTATATGIGAT	713
Db	900	GAAGAGATGCTGGGAGTAGAAAGGCTTATGA	933	Db	600	CGGACCATTTCTGGCTGGGGACCCCTGTCACACATGTTAGTTATATGIGAT	659
RESULT	11			Qy	714	CCTCTGCTGTCATCCTCAGTCAGTCAGGGAGTTGAGGARAGGCCTCCGCACCTG	773
AX241442				Db	660	CTCTGIGCTATCCTCAGTCAGTCAGGGAGTTGAGGARAGGCCTCCGCACCTG	719
LOCUS	AX241442	Sequence 190 from Patent WO0127158.	930 bp DNA linear	Qy	774	CTTCCTCACCCTCTGTGATGGACTCTTATGGCCAGCCATTACATGATGTTG	833
ACCESSION	AX241442			Db	720	CTTCCTCACCCTCTGTGATGGACTCTTATGGCCAGCCATTACATGATGTTG	779
VERSION	AX241442.1	G1:15798317		Qy	834	ACCCAGATATGGAAACCCCAAGGGAGCAGAAATATCCTCTGTTACGCCCTT	893
SOURCE		synthetic construct.		Db	780	ACCCAGATATGGAAACCCCAAGGGAGCAGAAATATCCTCTGTTACGCCCTT	839
ORGANISM		synthetic construct.		Qy	894	TAATCCCATGTCATACTCCCTATCTGTAGCTTAGAACCTCAGAAGTGAGAATCTT	953
REFERENCE	1	(bases 1 to 930)		Db	840	TAATCCCATGTCATACTCCCTATCTGTAGCTTAGAACCTCAGAAGTGAGAATCTT	899
AUTHORS	Bellinson,J., Smith,D., Lancet,D., Glusman,G., Fuchs,T. and Yanai,I.			Qy	954	GAAGAGATGCTGGGAGTAGAAAGGCTTATGA	987
TITLE	Patent: WO 0127158-A 190 19-APR-2001;			Db	900	GAAGAGATGCTGGGAGTAGAAAGGCTTATGA	933
JOURNAL	Digisents (US); YEDA RESEARCH AND DEVELOPMENT COMPANY, LTD. (IL)			Qy			
FEATURES	Location/Qualifiers			Db			
Source	1..930 /organism="synthetic construct" /db_xref="taxon:32030" /note="(38938 nucleotide)"			Qy			
BASE COUNT	193 a 265 c 202 g 270 t			Db			
ORIGIN				Qy			
Query Match	88.8%	Score 900.6; DB 6; Length 930;		Db			
Best Local Similarity	99.4%	Pred. No. 2.9e 211;		Qy			
Matches	925; Conservative	0; Mismatches 4; Indels 2; Gaps 2;		Db			
Qy	55	ATGGGGACATATAACATCCATCACAGAGTCAGAGTCCCTACTGGGATTCCGGTGGCCA	114	Qy	774	CTTCCTCACCCTCTGTGATGGACTCTTATGGCCAGCCATTACATGATGTTG	833
Db	1	ATGGGACACATACTGGGCTCATCTCACTGACTCCAGACTGAGTCAGGGCCCGCC	60	Db	720	CTTCCTCACCCTCTGTGATGGACTCTTATGGCCAGCCATTACATGATGTTG	779
Qy	115	AGGATTCAGATCTCTCTTGGGCTTTCCTCCGGTCTACGGCTTCACCTCTGGGG	174	Qy	834	ACCCAGATATGGAAACCCCAAGGGAGCAGAAATATCCTCTGTTACGCCCTT	893
Db	61	AGGATTCAGATCTCTCTTGGGCTTTCCTCCGGTCTACGGCTTCACCTCTGGGG	120	Db	780	ACCCAGATATGGAAACCCCAAGGGAGCAGAAATATCCTCTGTTACGCCCTT	839
Qy	175	ACGGGGACATACTGGGCTCATCTCACTGACTCCAGACTGAGTCAGGGCCCGCC	233	Qy	894	TAATCCCATGTCATACTCCCTATCTGTAGCTTAGAACCTCAGAAGTGAGAATCTT	953
Db	121	ACGGGGACATACTGGGCTCATCTCACTGACTCCAGACTGAGTCAGGGCCCGCC	180	Db	840	TAATCCCATGTCATACTCCCTATCTGTAGCTTAGAACCTCAGAAGTGAGAATCTT	899
Qy	234	TTCTCTCACACCTGGGGCTGTCAGATGGCTTCACCTGAGCTTCACCTGGGG	293	Qy	954	GAAGAGATGCTGGGAGTAGAAAGGCTTATGA	987
Db	181	TTCTCTCACACCTGGGGCTGTCAGATGGCTTCACCTGAGCTTCACCTGGGG	240	Db	900	GAAGAGATGCTGGGAGTAGAAAGGCTTATGA	933
Qy	294	CTGGGTGACCTCTGTCATCAGGCCATCTCTTGGGGCGCGATGCGACCC	353	Qy			
Db	241	CTGGGTGACCTCTGTCATCAGGCCATCTCTTGGGGCGCGATGCGACCC	300	Db			
Qy	354	TTCTCTCACCTGGGCTCATGCCACCCCCCTCGAGAATGGCTTCACCTGGGTTATGAT	413	Qy			
Db	301	TTCTCTCACCTGGGCTCATGCCACCCCCCTCGAGAATGGCTTCACCTGGGTTATGAT	360	Db			
Qy	414	CTGTCACCTGGCCTCATGCCACCCCCCTCGAGAATGGCTTCACCTGGGTTATGAT	473	Qy			
Db	361	CTGTCACCTGGCCTCATGCCACCCCCCTCGAGAATGGCTTCACCTGGGTTATGAT	420	Db			
Qy	474	ATGACCCCTGGGGCTGACTCTCTGGGACACTGGAGCTCTTATCTGTATCTG	533	Qy			
Db	421	ATGACCCCTGGGGCTGACTCTCTGGGACACTGGAGCTCTTATCTGTATCTG	480	Db			
Qy	534	TTCTCTCACCTTGACCTCTGGGCTGAGAAATTATCACTTTTGTGAAT	593	Qy			

Db	181	TTCCTCTCACACTSGGGGCGTCGACATGCCCTAGCCGCAACACGGGCCCCGGATG	240	REFERENCE Waterson, R.H. TITLE JOURNAL
Qy	294	CTGGTCACTCTGCATCGGCCAGCCACATCCTTGCGGGCGCAGATGAGACC	353	REFERENCE Submitted (31-MAY-2001) Genome Sequencing Center, Washington University School of Medicine, 4444 Forest Park Parkway, St. Louis, MO 63108, USA
Db	241	CTGGTGAACCTCTGCATCCAGCCAAAGCCACATCTTGCGGGCGCATGAGACC	300	AUTHORS Waterson, R.H. TITLE JOURNAL
Qy	354	TTCGTGTTCACTTGTGTCAGACAGATGCTCCTCGTGTGATGTCATGAT	413	REFERENCE 4 (bases 1 to 104955) AUTHORS Waterson, R.H. TITLE JOURNAL
Db	301	TTCGTGTTCACTTGTGTCAGACAGATGCTCCTCGTGTGATGTCATGAT	360	Direct Submission Submitted (09-AUG-2001) Genome Sequencing Center, Washington University School of Medicine, 4444 Forest Park Parkway, St. Louis, MO 63108, USA
Qy	414	CTGTAATGGCCATCTGCCACCCCTCGGATATTGCCATCATGAGCTGAGATG	473	REFERENCE 5 (bases 1 to 104955) AUTHORS Waterson, R.H. TITLE JOURNAL
Db	361	CTGTAATGGCCATCTGCCACCCCTCGGATATTGCCATCATGAGCTGAGATG	420	Direct Submission Submitted (09-AUG-2001) Department of Genetics, Washington University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
Qy	474	ATCACCTCGGGTGAATCTGGGACTCTGGAGCTGAGTCTTATCCATCTG	533	COMMENT On Aug 9, 2001 this sequence version replaced gi:14550325.
Db	421	ATCACCTCGGGTGAATCTGGGACTCTGGAGCTGAGTCTTATCCATCTG	480	Center: Washington University Genome Sequencing Center Center code: WUSSC Web site: http://genome.wustl.edu/gsc Contact: sariens@wustl.edu
Qy	534	TTRACTCTACCTTACCTCTGTAGGCCCGAGAAATTACACTTTTGTGAAT	593	----- Summary Statistics ----- Center project name: H_NH0703N05
Db	481	TTRACTCTACCTTACCTCTGTAGGCCCGAGAAATTACACTTTTGTGAAT	539	-----
Qy	594	CTTGGCTGTCACAACCTGGCTGTCAGATACCCACATCATGAGAACATGGCTG	653	NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.
Db	540	CTTGGCTGTCACAACCTGGCTGTCAGATACCCACATCATGAGAACATGGCTG	599	540
Qy	654	CGGAGCAATCTTGCGCTGCGGGACCTGTGCCACATGTAGTTCATATGCT	713	This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by restriction digest.
Db	600	CGGAGCAATCTTGCGCTGCGGGACCTGTGCCACATGTAGTTCATATGCT	659	654
Qy	714	OCTCTGSGCTACCTCTCAGATCCAATGAGGAAAGTTCAGAGGAAGGCC	773	714
Db	660	OCTCTGSGCTACCTCTCAGATCCAATGAGGAAAGTTCAGAGGAAGGCC	719	660
Qy	774	CCTCTCCACCTCTGTGATGACTCTTATGACASCAATCAGTATGTTG	833	774
Db	720	CCTCTCCACCTCTGTGATGACTCTTATGACACCCCTTCGACCG	779	720
Qy	834	ACCCAGATATGGAAACCCAAAGGAGCAGAGAATACTCTCGCTGTTACAGCCTT	893	834
Db	780	ACCCAGATATGGAAACCCAAAGGAGCAGAGAATACTCTCGCTGTTACAGCCTT	839	780
Qy	894	TAATCCCATGCTCAATGCCCTATCTGATCTAGRACTAGAAATGAAATATT	953	894
Db	840	TAATCCCATGCTCAATGCCCTATCTGATCTAGRACTAGAAATGAAATATT	899	840
Qy	954	GAGAGATGGCTGGACTATGAAAGGGCTTA	984	954
Db	900	GAGAGACTGCTGGAGTAGAAAGGGCTTA	930	900
RESULT	13			SOURCE INFORMATION: The RPCI-11 human BAC library was made from the blood of one male donor, as described by Osoegawa, K., Woon, P.Y., Zhao, B., Frengen, E., Tateno, M., Cataneo, J.J. and de Jong, P.J. (1998). An improved approach for construction of bacterial artificial chromosome libraries. Genomics 51:1-8. The clone may be obtained either from Research Genetics, Inc. (http://www.resgen.com) or Pieter de Jong and coworkers at the Roswell Park Cancer Institute (http://bacpac.med.buffalo.edu)
AC091768		104955 bp DNA linear	PRI 09-JAN-2002	VECTOR: pBAC3.6 ORGANISM: Homo sapiens
LOCUS	AC091768			Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
DEFINITION	Homo sapiens BAC clone RP11-703N5 from 7, complete sequence.			
ACCESSION	AC091768			
VERSION	AC091768.4			
KEYWORDS	HTG.			
SOURCE	Homo sapiens.			
REFERENCE	1. (bases 1 to 104955)			NEIGHBORING SEQUENCE INFORMATION: The clone sequenced to the left is RP4-669B10, 2000 bp overlap; the clone sequenced to the right is RP4-798C17, 2000 bp overlap.
AUTHORS	Sulston, J.E. and Waterston, R.			Actual start of this clone is at base position 123947 of RP4-669B10; actual end is at base position 64342 of RP11-798C17.
TITLE	Toward a complete human genome sequence			RP11-703N5 contains a single plasmid region from 4550 to 4616 and
JOURNAL	Genome Res. 8 (11), 1097-1108 (1998)			4668 to 4721.
MEDLINE	9906392			FEATURES source
PUBLMED	9847071			Location/Qualifiers 1..104955 'organism'='Homo sapiens' 'db_xref'='taxon:9606' 'chromosome'='7'
REFERENCE	2. (bases 1 to 104955)			
AUTHORS	Harris, A., Haakenson, W. and Spalding, L.			
TITLE	The sequence of Homo sapiens BAC clone RP11-703N5			
JOURNAL	Unpublished (2001)			

Db 29255 GSCCCTTCATCTAGTGTTACTGCTTACACTGCTCGTGAGCCCGAAGCTAA 29314
 QY 575 TCACTTTTTTGTGAATACTCTGGCTCTCAACTTGCTGTCAGATACCACATTA 634
 Db 29315 TCACT-TTTTCTGTGAATTATGGCTGTCACAATTGCTGCTGAGATAACCTG 29373
 QY 635 ATCGAGAACATGGCTGGCCGAGCATTCCTGGGTGGGGACCTGTCGCTGGGG 694
 Db 29374 ATGAGGAAATGTTTGGCAGGGCAGTGCTGCTGCTGGGGACCTGTC 29433
 QY 695 TACTTCATATGTGCATCCCTGCTTACCTGCTTCACCTGCTGATGGACTCT 754
 Db 29434 TAATATCTATGTTCTATGTTCTATGTTCTATGTCATTAAGATGTCAG 29493
 QY 755 GGAAGCTTCTGCACTGCTCTCCACCTGCTGATGGACTCTTATGCGAG 814
 Db 29494 AGAAAGCTTCATGCTCCACCTGCTGCTGGGGTCAG 29553
 QY 815 CCTTATCATGATGTTGACGCCAGATGGACCCCAAAGGACAGAATATGCC 874
 Db 29554 CCATCATCATGATGTTGAGGCCAGATGAGGCCCAAAGGAGAAATATCCC 29613
 QY 875 TCGCTGTTCAAGCCCTTATCCATGCTCAATCCCTTATGTTCTAGTAGGACT 934
 Db 29614 TGTGTTCTACAGCTCTTCATCCATGCTTAATCCCTAATTATAGTC 29673
 QY 935 CAGAACTGAAAGATACTTGAGAGAGTGTGGGGTAGAAGGGCTTATGAA 989
 Db 29674 AGGAAGTCCAGGTACTCTAAAGAGATGCTGAANAGAGACTCTATGARA 29728

RESULT 14

AC091746 AC091746 204316 bp DNA linear HTG 26-APR-2002
 LOCUS MUS_musculus_chromosome_6_clone_rp23-62E15 map 6B2, *** SEQUENCING
 DEFINITION IN PROGRESS ***, 30 ordered Pieces.
 ACCESSION AC091746
 VERSION 2.0
 HTG: HTGS PHASE2.

KEYWORDS SOURCE
 ORGANISM
 MUS_musculus
 Mammalia; Eutheria; Rodentia; Sciuromorpha; Muridae; Murinae; Mus.
 REFERENCE 1 (bases 1 to 20316)
 AUTHORS Young, J.M., Madan, A., Hall, J., Friedman, C., Dickhoff, R., Greene, J.,
 Lane, R.P. and Trask, B.J.
 TITLE JOURNAL
 Evolution of the mouse olfactory receptor gene family
 unpublished
 REFERENCE 2 (bases 1 to 20416)
 AUTHORS Young, J.M., Madan, A., Hall, J., Friedman, C., Dickhoff, R., Greene, J.,
 Lane, R.P. and Trask, B.J.
 TITLE JOURNAL
 Submitted (2-MAY-2001) Division of Human Biology, Fred Hutchinson
 Cancer Research Center, 1100 Fairview Ave N, C3-168, P.O. Box
 19024, Seattle, WA 98109-1024,
 {bases 1 to 20316}
 AUTHORS Rodriguez, S., Kettler, M., Fahey, J., Helton, E., Sanchez, A.,
 Madan, A., Whiting, M., Ross, J.A., Lane, R.P. and Trask, B.J.
 TITLE JOURNAL
 Submitted (26-APR-2002) Division of Human Biology, Fred Hutchinson
 Cancer Research Center, 1100 Fairview Ave N, C3-168, P.O. Box
 19024, Seattle, WA 98109-1024, USA
 COMMENT
 On Apr 26, 2002 this sequence, version replaced gti:4211553.
 * NOTE: This is a working draft sequence. It currently
 * consists of 30 contigs. Gaps between the contigs
 * are represented as runs of N. The order of the pieces
 * is believed to be correct as given, however the sizes
 * of the gaps between them are based on estimates that have
 * provided by the submitter.
 * This sequence will be replaced
 * by the finished sequence as soon as it is available and

* the accession number will be preserved.
 * 11127: contig of 11127 bp in length
 * 11228: gap of unknown length
 * 11869: 1868: gap of unknown length
 * 18868: contig of 7641 bp in length
 * 40960: contig of 21992 bp in length
 * 41061: 41060: gap of unknown length
 * 44591: contig of 3531 bp in length
 * 44692: gap of unknown length
 * 46057: contig of 1376 bp in length
 * 46058: 46057: gap of unknown length
 * 46368: 47511: gap of 1344 bp in length
 * 47512: 47611: gap of unknown length
 * 54300: 54300: contig of 889 bp in length
 * 63194: 63233: gap of unknown length
 * 63233: 63233: gap of unknown length
 * 51355: 51354: gap of unknown length
 * 51455: 52639: contig of 1185 bp in length
 * 52640: 52639: gap of unknown length
 * 52740: 54199: contig of 1460 bp in length
 * 54209: 54209: gap of unknown length
 * 47612: 51354: contig of 3743 bp in length
 * 63233: 63233: gap of unknown length
 * 70626: 70725: contig of 7332 bp in length
 * 70725: gap of unknown length
 * 70725: 74165: contig of 3340 bp in length
 * 74165: 74165: gap of unknown length
 * 74166: 77820: contig of 3725 bp in length
 * 77820: 77820: gap of unknown length
 * 77891: 82776: contig of 478 bp in length
 * 82776: 82877: gap of unknown length
 * 82877: 82877: contig of 8079 bp in length
 * 90556: 90556: gap of unknown length
 * 91056: 93533: contig of 2508 bp in length
 * 93563: 93563: gap of unknown length
 * 93564: 98339: contig of 4876 bp in length
 * 98339: 98339: gap of unknown length
 * 98540: 98540: 100533: contig of 1594 bp in length
 * 100533: 100533: gap of unknown length
 * 100324: 100324: 100324: contig of 8411 bp in length
 * 100844: 100844: gap of unknown length
 * 100844: 100844: contig of 11740 bp in length
 * 100845: 100845: 100845: contig of 120504: gap of unknown length
 * 100845: 100845: 100845: contig of 120685: 122234: contig of 1550 bp in length
 * 100845: 100845: 100845: 122234: gap of unknown length
 * 122235: 122235: 122235: 136666: contig of 14632 bp in length
 * 135066: 135066: 135066: 135066: 135066: gap of unknown length
 * 135067: 135067: 135067: 135067: 135067: contig of 9749 bp in length
 * 146816: 146816: 146816: 146915: 146915: gap of unknown length
 * 146915: 146915: 146915: 152443: 152443: contig of 5628 bp in length
 * 146916: 146916: 146916: 152443: 152443: gap of unknown length
 * 152544: 152544: 152544: 152544: 152544: gap of unknown length
 * 152544: 152544: 152544: 152544: 152544: contig of 11607 bp in length
 * 164251: 164251: 164251: 164251: 164251: gap of unknown length
 * 164251: 164251: 164251: 164251: 164251: contig of 5873 bp in length
 * 164351: 164351: 164351: 170223: 170223: gap of unknown length
 * 170224: 170224: 170224: 170223: 170223: gap of unknown length
 * 170324: 170324: 170324: 189325: 189325: contig of 18912 bp in length
 * 189325: 189325: 189325: 189325: 189325: gap of unknown length
 * 189336: 189336: 189336: 199122: 199122: contig of 10087 bp in length
 * 199122: 199122: 199122: 199122: 199122: gap of unknown length
 * 199122: 199122: 199122: 199423: 199423: gap of unknown length
 * 199423: 199423: 199423: 199522: 199522: contig of 1760 bp in length
 * 199522: 199522: 199522: 199522: 199522: gap of unknown length
 * 199522: 199522: 199522: 201283: 201283: gap of unknown length
 * 201283: 201283: 201283: 201302: 201302: gap of unknown length
 * 201302: 201302: 201302: 201383: 201383: contig of 2934 bp in length
 FEATURES source
 1. 204316
 /organism="Mus musculus"
 /db_xref="taxon:10090"
 /chromosome="6"
 /map="6B2"
 /clone="RP23-62E15"
 BASE COUNT 61234 a 39664 c 38680 g 61651 t 3087 others
 ORIGIN
 Query Match 63.6%; Score 645.4; DB 2; Length 204316;
 Best Local Similarity 80.5%; Pred. No. 3.2e-148; Indels 2; Gaps 2;
 Matches 779; Conservative 0; Mismatches 187;

Fri May 2 08:29:43 2003

us-09-898-586-23.rge

Page 16

||||||||||||||||||||||||||||||||||||||||||||||||||
Db 360 TGCCTGTGCAAGATACCACATCAATGAGAACATGGTCTTGCCGGACATTCGGCT 419
QY 672 GGTGGACCCCTGTCCACAATTGTAGTTTGTATATATGTGATCATCTGCTGCTATCCTCA 731
Db 420 GGTGGACCCCTGTCCACAATTGTAGTTTGTATATGTGATCATCTGCTGCTGCTGCTGCTA 479
QY 732 GATCCAAATCAAGGAAGTTCAGGAAAGCCTCTGCACCTGCTCTCCACCTCTGCT 791
Db 480 GATCCAAATCAAGGAAGTTCAGGAAAGCCTCTGCACCTGCTCTCCACCTCTGCT 539
QY 792 GATGGACTCTTTATGGCAAGCATTATCATGATGATGTTGACCCAGATATGGAAACC 851
Db 540 GATGGACTCTTTATGGCAAGCATTATCATGATGATGTTGACCCAGATATGGAAACC 599
QY 852 CAGGACGAGAAGAAATATCTCTCTGCTGTTACACGCCCTTAATCCAT 902
Db 600 CAAGGAGCAGAGAAATATCTCCCGTGTACAGCCTCTTAATCCAT 650

Search completed: May 2, 2003, 05:55:22
Job time : 3242 secs

GenCore version 5.1.4-p5-4578
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 2, 2003, 04:56:35 ; Search time 1671 seconds
{Without alignments}
717.034 Million cell updates/sec

Title: US-09-898-586-23
perfect score: 1014
Sequence: taacacttctcttaaacca.....taggcattgtgactgaca 1014

Scoring table: IDENTITY.NUC
Gappen 10.0 , gapext 1.0

Searched: 74664 seqs, 590810534 residues

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications NA:*

- 1: /cggn2_6/podata/1/pdbpna/us07_pubcomb.seq:*
- 2: /cggn2_6/podata/1/pdbpna/pcr_new_pub.seq:*
- 3: /cggn2_6/podata/1/pdbpna/us06_new_pub.seq:*
- 4: /cggn2_6/podata/1/pdbpna/us06_pubcomb.seq:*
- 5: /cggn2_6/podata/1/pdbpna/us07_new_pub.seq:*
- 6: /cggn2_6/podata/1/pdbpna/pctus_pubcomb.seq:*
- 7: /cggn2_6/podata/1/pdbpna/us08_new_pub.seq:*
- 8: /cggn2_6/podata/1/pdbpna/us08_pubcomb.seq:*
- 9: /cggn2_6/podata/1/pdbpna/us09_new_pub.seq:*
- 10: /cggn2_6/podata/1/pdbpna/us09_pubcomb.seq:*
- 11: /cggn2_6/podata/1/pdbpna/us10_new_pub.seq:*
- 12: /cggn2_6/podata/1/pdbpna/us10_pubcomb.seq:*
- 13: /cggn2_6/podata/1/pdbpna/us60_new_pub.seq:*
- 14: /cggn2_6/podata/1/pdbpna/us60_pubcomb.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Length	DB ID	Description
1	1014	100.0	1014	US-09-898-586-23 Sequence 23, Appl
2	1014	100.0	1014	US-09-898-586-23 Sequence 23, Appl
3	987.4	97.4	1012	US-09-898-586-21 Sequence 21, Appl
4	987.4	97.4	1012	US-09-898-586-21 Sequence 21, Appl
5	983.6	97.0	1040	US-09-898-586-3 Sequence 3, Appl
6	983.6	97.0	1040	US-09-898-586-3 Sequence 3, Appl
7	983.6	97.0	1040	US-09-898-586-3 Sequence 3, Appl
8	983.6	97.0	1040	US-09-898-586-3 Sequence 3, Appl
9	54.5	5.7	1957	US-09-864-61-30527 Sequence 34, Appl
10	538.2	53.1	2282	US-10-008-841-92 Sequence 41, Appl
11	538.2	53.1	2282	US-10-008-841-92 Sequence 41, Appl
12	536.9	1788	1713	US-09-747-835A-62 Sequence 43, Appl
13	536.6	52.9	2735	US-09-747-835A-34 Sequence 43, Appl
14	535.2	52.8	933	US-09-864-61-30527 Sequence 43, Appl
15	511.4	50.4	1782	US-09-747-835A-41 Sequence 43, Appl
16	505.4	49.5	927	US-09-747-835A-43 Sequence 43, Appl
17	481.2	47.5	1713	US-10-024-494-1 Sequence 43, Appl
18	42.6	40.8	414	US-09-886-055-486 Sequence 486, Appl

ALIGNMENTS

RESULT 1
US-09-898-586-23
Sequence 23, Application US/09898586
Publication No. US20030307794A1

GENERAL INFORMATION:

APPLICANT: Macdougall, John R

APPLICANT: Smitson, Glenanda

APPLICANT: Gerlach, Valerie L

CURRENT APPLICATION NUMBER: US/09/898-586

CURRENT FILING DATE: 2001-08-27

PRIOR APPLICATION NUMBER: 60/177,839

PRIOR FILING DATE: 2000-01-25

PRIOR APPLICATION NUMBER: 60/176,134

PRIOR APPLICATION NUMBER: 60/175,989

PRIOR FILING DATE: 2000-01-13

PRIOR APPLICATION NUMBER: 60/218,324

PRIOR FILING DATE: 2000-07-14

PRIOR APPLICATION NUMBER: 60/220,253

PRIOR FILING DATE: 2000-07-24

PRIOR APPLICATION NUMBER: 60/178,191

PRIOR FILING DATE: 2000-01-26

PRIOR APPLICATION NUMBER: 60/178,227

PRIOR FILING DATE: 2000-01-26

PRIOR APPLICATION NUMBER: 60/220,590

PRIOR FILING DATE: 2000-07-25

PRIOR APPLICATION NUMBER: 09/761,288

PRIOR FILING DATE: 2001-01-16

NUMBER OF SEQ ID NOS: 104

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO: 23

LENGTH: 1014

TYPE: DNA

ORGANISM: Homo sapiens

US-09-898-586-23

Query Match 100.0%; Score 1014; DB 9; Length 1014;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1014; Conservative 0; Mismatches 0;
Indels 0; Gaps 0;

RESULT 4
US-09-761-288-21
Sequence 21, Application US/09761288
; Patent No. US2002005405A1
GENERAL INFORMATION:
APPLICANT: Padigaru, Muralidhara
APPLICANT: Prayaga, Sudhirdas
APPLICANT: Taufer, Raymond J
APPLICANT: Mishra, Vishnu
APPLICANT: Tchernev, Velizar
APPLICANT: Sytek, Kimberly
APPLICANT: Li, Li
TITLE OF INVENTION: No. US20020065405A1 Polypeptides and Nucleic Acids Encoding Same
FILE REFERENCE: 15966-638
CURRENT APPLICATION NUMBER: US09/771,288
CURRENT FILING DATE: 2001-01-16
PRIOR APPLICATION NUMBER: 60/177,839
PRIOR FILING DATE: 2000-01-25
PRIOR APPLICATION NUMBER: 60/176,134
PRIOR FILING DATE: 2000-01-14
PRIOR APPLICATION NUMBER: 60/175,989
PRIOR FILING DATE: 2000-01-13
PRIOR APPLICATION NUMBER: 60/178,324
PRIOR FILING DATE: 2000-01-14
PRIOR APPLICATION NUMBER: 60/176,253
PRIOR FILING DATE: 2000-07-24
PRIOR APPLICATION NUMBER: 60/178,191
PRIOR FILING DATE: 2000-01-26
PRIOR APPLICATION NUMBER: 60/178,227
PRIOR FILING DATE: 2000-01-26
PRIOR APPLICATION NUMBER: 60/220,590
PRIOR FILING DATE: 2000-07-25
NUMBER OF SEQ ID NOS: 95
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO: 21
LENGTH: 1012
TYPE: DNA
ORGANISM: Homo sapiens
US-09-761-288-21

Query Match 97.4%; Score 987.4; DB 10; Length 1012;
Best Local Similarity 99.7%; Pred. No. 5.2e-312;
Matches 1010; Conservative 0; Mismatches 11; Indels 2; Gaps 2;

QY 2 AACACTTCTCTAAACCATGAGCTTAACGTGATGTTCTCGTCATAGGGATAGGG 61
Db 1 AACACTTCTCTAAACCATGAGCTTAACGTGATGTTCTCGTCATAGGGATAGGG 60

Qy 122 AGATGTCCTCTTGGCTCTCTGGCTCTCTGGATTTCCCTGGCCAGGATC 121
Db 121 AGATGTCCTCTTGGCTCTCTGGCTCTCTGGATTTCCCTGGCCAGGATC 120

Qy 182 CCATACTGGGCTCACTCTGGACTCCAGACTGCACGCCCGG-TGTACTCTCTCT 240
Db 181 CCATACTGGGCTCACTCTGGACTCCAGACTGCACGCCCGG-TGTACTCTCTCT 240

Qy 241 CGACACGGGCGGCTGGGACTTGCCCTGGCACAGGGTGCGCGCATGGTGA 300
Db 241 CGACACGGGCGGCTGGGACTTGCCCTGGCACAGGGTGCGCGCATGGTGA 300

Qy 301 ACCTCCCTGCACTCCAGGCAAGCCATCTCTGGGCTGACAGGGTGCGCGCATGGTGA 360
Db 301 ACCTCCCTGCACTCCAGGCAAGCCATCTCTGGGCTGACAGGGTGCGCGCATGGTGA 360

Qy 361 TTTCACATTGCTGACAGAATGATGCTCTCTGGGGATGCTCTATGATGATGATG 420
Db 361 TTTCACATTGCTGACAGAATGATGCTCTCTGGGGATGCTCTATGATGATGATG 420

QY 421 TGGCCATCTGCCACCCCTCCGATATTGGCCATCATGACGAGCTCTGCATCACCC 480
Db 421 TGGCCATCTGCCACCCCTCCGATATTGGCCATCATGACGAGCTCTGCATCACCC 480

QY 481 TCGCGGTGACTTCGCGACACTGGAGTCTTATCCTTGATCATCTTGTTACTTC 540
Db 481 TCGCGGTGACTTCGCGACACTGGAGTCTTATCCTTGATCATCTTGTTACTTC 540

QY 541 TACCTTTACCCCTCTGGCCAGAAATTATCACTTTTTTGAAATCTGGCT 600
Db 541 TACCTTTACCCCTCTGGCCAGAAATTATCACTTTTTTGAAATCTGGCT 599

QY 601 GTTCTCAACCTTGCCCTGCGAGATACCCATCATGAGAACATGCTTGGCGGAGGA 660
Db 600 GTTCTCAACCTTGCCCTGCGAGATACCCATCATGAGAACATGCTTGGCGGAGGA 659

QY 661 ATTCTCGCTGGGAGCCCTTGTCACAAATTGTGTTCATATATGGCATCCTCTG 720
Db 660 ATTCTCGCTGGGAGCCCTTGTCACAAATTGTGTTCATATATGGCATCCTCTG 719

QY 721 GCTATCCTCGATCCATCAGGGAGTCAGAGGAAGTCAGAGGAAGCTCTGCTCTC 779
Db 720 GCTATCCTCGATCCATCAGGGAGTCAGAGGAAGCTCTGCTCTC 779

QY 781 CACCTCTGTGATGGACTCTTTATGACAGGCAATTGTGTTCATATGGCATCTG 840
Db 780 CACCTCTGTGATGGACTCTTTATGACAGGCAATTGTGTTCATATGGCATCTG 839

QY 841 TATGGGAAAGCCAAGGGAGCAGAGAAATATCTCTGCTGTTCACAGCCCTTAACTCC 900
Db 840 TATGGGAAAGCCAAGGGAGCAGAGAAATATCTCTGCTGTTCACAGCCCTTAACTCC 899

QY 901 ATGCTCAATCCCTTAATCTGTAGTCTGAGAACTCAGAAGTACTTTGAGAGA 960
Db 900 ATGCTCAATCCCTTAATCTGTAGTCTGAGAACTCAGAAGTACTTTGAGAGA 959

QY 961 GTCGTTGGAGTAGAAAGGCTTATGAAAGGATTATGCAATTGCAATTGAC 1013
Db 960 GTCGTTGGAGTAGAAAGGCTTATGAAAGGATTATGCAATTGCAATTGAC 1012

RESULT 5
US-09-898-586-3
Sequence 3, Application US/09988586
; Publication No. US20030077794A1
GENERAL INFORMATION:
APPLICANT: Gerlach, Valerie L
APPLICANT: Madougall, John R
APPLICANT: Smithson, Glenna
TITLE OF INVENTION: No. US20030077794A1 Polypeptides and Nucleic Acids Encoding Same
FILE REFERENCE: 15966-638CIP
CURRENT APPLICATION NUMBER: US09/898,586
CURRENT FILING DATE: 2001-08-27
PRIOR APPLICATION NUMBER: 60/177,839
PRIOR FILING DATE: 2000-01-25
PRIOR APPLICATION NUMBER: 60/176,134
PRIOR FILING DATE: 2000-01-14
PRIOR APPLICATION NUMBER: 60/175,989
PRIOR FILING DATE: 2000-01-26
PRIOR APPLICATION NUMBER: 60/178,324
PRIOR FILING DATE: 2000-01-13
PRIOR APPLICATION NUMBER: 60/220,590
PRIOR FILING DATE: 2000-07-24
PRIOR APPLICATION NUMBER: 60/178,191
PRIOR FILING DATE: 2000-01-26
PRIOR APPLICATION NUMBER: 60/178,227
PRIOR FILING DATE: 2000-01-26
PRIOR APPLICATION NUMBER: 60/220,590
PRIOR FILING DATE: 2000-07-25
PRIOR APPLICATION NUMBER: 09/761,288
PRIOR FILING DATE: 2001-01-16
NUMBER OF SEQ ID NOS: 104
SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 3
; LENGTH: 1040
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-898-586-3

Query Match 97.0%; Score 983.6; DB 9; Length 1040;
Best Local Similarity 99.4%; Pred. No. 9.2e-311; Matches 1008; Conservative 0; Mismatches 4; Indels 2; Gaps 2;

QY 1 TAACACTTCTAACATGAGCATTAACCTTGATTTGATTGGCAATGGGG 60
Db 28 TAACACTTCTAACATGAGCATTAACCTTGATTTGATTGGCAATGGGG 60
QY 61 GACAATATAACATCCATCAGAGATTAACTCTGAGCTTCTGAGATAGGG 60
Db 88 GACAATATAACATCCATCAGAGATTAACTCTGAGCTTCTGAGATAGGG 60
QY 121 CAGAGCTCTCTTGGCTCTTCGCCCTCTGAGCTTCTGAGCTTCTGAGATAGGG 60
Db 148 CAGATGCTCCCTTGGCTCTGAGCTTCTGAGCTTCTGAGATAGGG 60
QY 181 ACCAATCTGGGCTTAATCTACTGGACTCAGACTGCACCCCGGCGG 120
Db 208 ACCAATCTGGGCTTAATCTACTGGACTCAGACTGCACCCCGGCGG 120
QY 240 TCACACCTGGGGCTCGACATCGCCCTAGCTGCTGAGCTTCTGAGATAGGG 120
Db 268 TCACACCTGGGGCTCGACATCGCCCTAGCTGAGCTTCTGAGATAGGG 120
QY 300 AACCTCTGTGATCCAGGAAGCCATCTTGGGGGGCGATGCGACCTTCTG 180
Db 328 AACCTCTGTGATCCAGGAAGCCATCTTGGGGGGCGATGCGACCTTCTG 180
QY 360 TTTTCACTTGTGCTGCTAGAAGATGTCCTCCGGTGTGAGCTTCTGAGATAGGG 207
Db 388 TTTTCACTTGTGCTGCTAGAAGATGTCCTCCGGTGTGAGCTTCTGAGATAGGG 207
QY 420 GTGGCCATCCTGCCACCCCCCGATATTGCCATCATGACCTGGAGAGCTGCA 239
Db 448 GTGGCCATCCTGCCACCCCCCGATATTGCCATCATGACCTGGAGAGCTGCA 239
QY 480 CTGGCGTGTGACTCTGGACACTGAGCTGGTGTGAGCTGAGCTGAGATCTGGTGTGACT 539
Db 508 CTGGCGTGTGACTCTGGACACTGAGCTGGTGTGAGCTGAGCTGAGATCTGGTGTGACT 539
QY 540 CTACCTTCTACCCCTCGTAGGCCCGAGAAATTAACTGTTTGTGAGCTTCTGAGATCTGG 599
Db 568 CTACCTTCTACCCCTCGTAGGCCCGAGAAATTAACTGTTTGTGAGCTTCTGAGATCTGG 599
QY 600 TGTTCCTCAACTTGCTGTGAGATACCACATGAGATACCTGCTGAGCTTCTGAGATCTGG 659
Db 627 TGTTCCTCAACTTGCTGTGAGATACCACATGAGATACCTGCTGAGCTTCTGAGATCTGG 659
QY 660 AATTCTCTGGGTGGGGACCTTGTGAGCTTCTGAGATACCTGCTGAGCTTCTGAGATCTGG 719
Db 687 AATTCTCTGGGTGGGGACCTTGTGAGCTTCTGAGATACCTGCTGAGCTTCTGAGATCTGG 719
QY 720 TGTCTACCTCTGAGATCAATCAAGGGAACTTCAGAGGAAGACCTTGTGAGCTTCTGAGATCTGG 779
Db 747 TGTCTACCTCTGAGATCAATCAAGGGAACTTCAGAGGAAGACCTTGTGAGCTTCTGAGATCTGG 779
QY 780 CCACCTCTGTGATGGACCTTGTGAGCTTCTGAGATCAATCTGGACAGCCATTATGAC 839
Db 807 CCACCTCTGTGATGGACCTTCTGAGATCAATCTGGACAGCCATTATGAC 839
QY 840 ATATGGGAAACCCCAAGGAGCAGAGAAGAAATATCTCCCTGCTTGTGAGCTTCTGAGATCTGG 899
Db 867 ATATGGGAAACCCCAAGGAGCAGAGAAGAAATATCTCCCTGCTTGTGAGCTTCTGAGATCTGG 899
QY 900 CATGCTCAATCCCTTATCTGAGCTTCTGAGATCAATCTGGACAGCCATTATGAC 926
Db 927 CATGCTCAATCCCTTATCTGAGCTTCTGAGATCAATCTGGACAGCTTCTGAGATCTGG 926
QY 930 AACCTCTGTGAGCTTCTGAGATCAATCTGGACAGCCATTATGAC 959
Db 328 AACCTCTGTGAGCTTCTGAGATCAATCTGGACAGCCATTATGAC 959
QY 360 TTTTCACTTGTGCTGAGCTTCTGAGATCAATCTGGACAGCTTCTGAGATCTGG 387
QY 960 AGTGTGGAGTAGAAAGGCTTATGAAAGGATTATGCAATTGTGACTGACA 1013
Db 987 AGTGTGGAGTAGAAAGGCTTATGAAAGGATTATGCAATTGTGACTGACA 1040

RESULT 6
US-09-898-586-34
; Sequence 34; Application US/09898586
; Publication No. US20030077794A1
; GENERAL INFORMATION:
; APPLICANT: Smithson, Glenda
; APPLICANT: Macdougall, John R
; CURRENT APPLICATION NUMBER: US/09/898, 586
; CURRENT FILING DATE: 2001-08-27
; PRIOR APPLICATION NUMBER: 60/177, 839
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: 60/176, 134
; PRIOR APPLICATION NUMBER: 60/175, 989
; PRIOR FILING DATE: 2000-01-13
; PRIOR APPLICATION NUMBER: 60/218, 324
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/220, 253
; PRIOR FILING DATE: 2000-07-24
; PRIOR APPLICATION NUMBER: 60/178, 191
; PRIOR FILING DATE: 2000-01-26
; PRIOR APPLICATION NUMBER: 60/178, 227
; PRIOR FILING DATE: 2000-01-26
; PRIOR APPLICATION NUMBER: 60/220, 590
; PRIOR FILING DATE: 2000-07-25
; PRIOR APPLICATION NUMBER: 09/761, 288
; PRIOR FILING DATE: 2001-01-16
; NUMBER OF SEQ ID NOS: 104
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 1040
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-898-586-34

Query Match 97.0%; Score 983.6; DB 9; Length 1040;
Best Local Similarity 99.4%; Pred. No. 9.2e-311; Matches 1008; Conservative 0; Mismatches 4; Indels 2; Gaps 2;

QY 1 TAACACTTCTAACATGAGCATTAACCTTGATTTGATTGGCAATGGGG 60
Db 28 TAACACTTCTAACATGAGCATTAACCTTGATTTGATTGGCAATGGGG 60
QY 61 GACAATATAACATCCATCAGAGATTAACTCTGAGCTTCTGAGATAGGG 60
Db 88 GACAATATAACATCCATCAGAGATTAACTCTGAGCTTCTGAGATAGGG 60
QY 121 CAGATGCTCCCTTGGGCTCTTCGCCCTGTTGAGCTTCTGAGCTTCTGAGATAGGG 120
Db 148 CAGATGCTCCCTTGGGCTCTTCGCCCTGTTGAGCTTCTGAGCTTCTGAGATAGGG 120
QY 181 ACCAATCTGGGCTTAATCTACTGGACTCAGACTGCACCCCGGCGG 120
Db 208 ACCAATCTGGGCTTAATCTACTGGACTCAGACTGCACCCCGGCGG 120
QY 240 TCACACTCTGGGGCTCTGAGCTTCTGAGCTTCTGAGCTTCTGAGATAGGG 207
Db 268 TCACACTCTGGGGCTCTGAGCTTCTGAGCTTCTGAGATAGGG 207
QY 300 AACCTCTGTGAGCTTCTGAGATCAATCTGGACAGCCATTATGAC 359
Db 328 AACCTCTGTGAGCTTCTGAGATCAATCTGGACAGCCATTATGAC 359
QY 360 TTTTCACTTGTGCTGAGCTTCTGAGATCAATCTGGACAGCTTCTGAGATCTGG 387

PRIOR APPLICATION NUMBER: US 60/236, 359
 PRIOR FILING DATE: 2000-09-27
 PRIOR APPLICATION NUMBER: PCT/US01/00666
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00667
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00664
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00669
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00665
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00668
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00663
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00662
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00661
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00670
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: US 60/234, 687
 PRIOR FILING DATE: 2000-09-21
 PRIOR APPLICATION NUMBER: US 09/608, 408
 PRIOR FILING DATE: 2000-06-30
 PRIOR APPLICATION NUMBER: US 09/774, 203
 PRIOR FILING DATE: 2001-01-29
 NUMBER OF SEQ ID NOS: 49117
 SOFTWARE: Annonax Sequence Listing Engine vers. 1.1
 SEQ ID NO: 13963
 LENGTH: 1957
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 OTHER INFORMATION: MAP TO AC004889.1
 OTHER INFORMATION: EXPRESSED IN HEK293T, SIGNAL = 1
 OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.1
 OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 0.93
 OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1
 OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1
 OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.3
 US-09-864-7-61-13963
 Query Match 53.7%; Score 545; DB 10; Length 1957;
 Best Local Similarity 74.6%; Pred. No. 3.1e-167; Indels 2; Gaps 2;
 Matches 711; Conservative 0; Mismatches 240; Gaps 2;
 QY 36 TTTCCTCTGCATAGGATATGGGGACAAATACATCCACACAGAGTCCTCCTACT 95
 Db 1073 TTTCCTCTGCATAGGAAATGGGGACAAATAGCAATGGCACAGAGTCCTCCTACT 1014
 QY 96 GGGATTCCGGTGGCCC2AAGGATCAGATGCTCTCTTGCCCTCTCCTGTCTA 155
 Db 1013 GGGATTCTCCTGGGCCCAAGGATCAGATGCTCTCTTGCCCTCTCCTGTCTA 954
 QY 156 CGTCCTCACCCCTGGGGAACATACTGGGCTCATCTCACTCGACATGCCAGACT 215
 Db 953 TATCTCACCTGGGGACAGGGCCATCCTGGGCTCATCTCACTCGACATGCCAGACT 894
 QY 216 GCACGCCCG-TGTAATCTCTCTCAGACCTGGGGTGTGACATGCCCTAGCTG 274
 Db 893 CCACACCCCCATGTAATCTCTCACACCTGGCTGACATGCCCTACACCGG 834
 QY 275 CAACACGGTCCCGGAGATGGTGAACCTCTCTGATCCAGCAAGGCCATCTCTTG 334
 Db 833 CAACACGGTCCCGGAGATGGTGAACCTCTCTGATCCAGGCCATCTCTTG 774
 QY 335 GGCCCGCATGTCGACACCTTGTGCTGTCAGATGCCCTACACGG 394
 Db 773 TGTGTCATGCGCAGACCTCTCTGTTGACTTTGGACACAGCGATGTCCTG 714
 QY 395 GTGGGATGTCATGATCTGTCAGTGGCCATCTGCCACCCCTCGGATATTGGCAT 454

Db 713 GGTCGTGATGTCCTACGACIGTGTGGCCATCTGCCACCCCTCGGATACTCCCTCAT 654
 QY 455 CATGACCTGGAGAGTCGTCGATCACCCCTGGGGAGACTCTCCGGACACTGGATGCCCTT 514
 Db 653 CATGACCTGGAGAGTCGTCGATCACCCCTGGGGAGACTCTCCGGACACTGGATGCCCT 594
 QY 515 ATCTTGATCAGTCTGGTTACTCTACTCTTACCTTGTGAGGCCACAAATA 574
 Db 593 GGCCTCTGGCCATCTGGTCTCATCTAGACTGCCCCCTCTGGGCCCTCATGAAATCAA 534
 QY 575 TCACTTTTTTCTGAAACTTGCTGTCCTGTCCTGTCAGCTGGCTGTCACATCCACATCA 634
 Db 533 CCAC-TTCTCTCTGTAATCTGTCCTGTCCTGTCAGCTGGCTGTCACACCTGGCTC 475
 QY 635 ATGAGACATGTCCTGGCGGGCAATTCTGTCCTGTCCTGTCAGCTGGCTGTCACATCA 694
 Db 474 ACCAGGTGGCATCTGTCCTGTCCTGTCCTGTCAGCTGGCTGTCACACCTGGCTGTC 415
 QY 695 TAGTTCAATATGTCATCTGTCAGTCCATCAAGGGAGTTCA 754
 Db 414 TTGTCCTCTACTCCACATCTGGGCCATCTGGAGGTCAGCTGGGGAGGGCCCA 355
 QY 755 GGAAGCCTCTGACCTGCTCTCCACACTCTGTCAGCTGGTGTGAGCTTGTGTCAG 814
 Db 354 GAAAGGCCTCTCCACCTCTCCACACTCTGGGCCATCTGGAGGTCAGCTGGGGAGGGCCCA 295
 QY 815 CCATATCAGTATGTTGACCCASATATGGACCCAGGGCAGAGAAATATCUC 874
 Db 294 CCATCATCAGTACATGGCCGCCAGTCGCCACATCTGAGGACGACAAGGCTTT 235
 QY 875 TGCTGTTACAGCCCTTATCCATCTCAATCCCTATGTTGACTCTTGAAGCT 934
 Db 234 TTCTATTTACAGTCTTGTCAACAGATTAACCCCTGATTAACCCCTGATTAACCCCTGAGGAAG 175
 QY 935 CAGAAGTGAAGATACTTGTAGAGAGTGTGGGAGTAGAAGGCTTTATGA 987
 Db 174 GAGAGSTCAAGGGTCCCTGAGGAGACTGGCAAGGAAGGCTTCTAA 122
 RESULT 10
 US-10-098-841-92
 ; Sequence 92, Application US/10098841
 ; Publication No. US20020197679A1
 GENERAL INFORMATION:
 APPLICANT: Tang, Y, Tom
 APPLICANT: Liu, Chenghua
 APPLICANT: Asundi, Vinod
 APPLICANT: Xu, Chongjun
 APPLICANT: Zhou, Ping
 APPLICANT: Ma, Yunqing
 APPLICANT: Wang, Jian Rui
 APPLICANT: Zhao, Qing A.
 APPLICANT: Ren, Feiyun
 APPLICANT: Chen, Rui-hong
 APPLICANT: Wang, Dunrui
 APPLICANT: Wang, Zhiwei
 APPLICANT: Wehrman, Tom
 APPLICANT: Zhang, Jie
 APPLICANT: Oian, Xiaohong B.
 APPLICANT: Dimanac, Radone T.
 TITLE OF INVENTION: No. US20020197679A1el Nucleic Acids and
 TITLE OF INVENTION: Polypeptides
 FILE REFERENCE: 784CIP2
 CURRENT APPLICATION NUMBER: US/10/098, 841
 CURRENT FILING DATE: 2002-03-13
 PRIOR APPLICATION NUMBER: 09/598, 042
 PRIOR FILING DATE: 2000-06-20
 PRIOR APPLICATION NUMBER: 09/552, 317
 PRIOR FILING DATE: 2000-04-25
 PRIOR APPLICATION NUMBER: 09/488, 725
 PRIOR FILING DATE: 2000-01-21
 NUMBER OF SEQ ID NOS: 331

QY 750 TCAGAGGAAGCCCTTCACCCGCTCTCCACCTGTGTGACTGAGCTTTATGG 809
Db 1180 CCGGAAGAACGCCCTTCACCCGCTCTCCACCTGTGTGACTGAGCTTTATGG 1239
QY 810 CACAGCCATTATCAGTGTGAGGACAGATGGAAACCCCAAGGAGCGAATAA 869
Db 1240 CAGGCCATCGTCATGTCATGGCCCTRASTGCCCATCTGGAGGCGCAGGGT 1299
QY 870 TCTCTGCTGTTACACGCCTTAATCCCTGTCATGTCATCTGGCTTAG 929
Db 1300 CCTTTTCATTTACACTTCTTCACGCCGTCACCCCTGTCACACTGAG 1359
QY 930 GAACTCAGAGTGAGAATACTTGAAGAGTGCTGGACTAGAAAGGCTTATGAA 989
Db 1360 GAATGAGGTCAAGGTCAGGTCCTGAGGAGACTGTGCAAGGAAGTCTTCAGA 1419
QY 990 AGGATA 996
Db 1420 GGTGTA 1426

RESULT 13
US-09-747-835A-34
; Sequence 34, Application US/09747835A
; Patent No. US200146692A1
; GENERAL INFORMATION:
; APPLICANT: Yamazaki, Victoria
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Zhou, Ping
; APPLICANT: Wang, Dunrui
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyun
; APPLICANT: Asundi, Vinod
; APPLICANT: Drmanac, Radivoje T
; TITLE OF INVENTION: METHODS AND MATERIALS RELATING TO G PROTEIN-COUPLED RECEPTOR-LIKE
; FILE REFERENCE: HYS-37CIP
; CURRENT APPLICATION NUMBER: US/09-747-835A
; CURRENT FILING DATE: 2002-03-08
; PRIOR APPLICATION NUMBER: US 09/729, 739
; PRIOR FILING DATE: 2000-12-04
; PRIOR APPLICATION NUMBER: US 09/653, 450
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: US 09/620, 312
; PRIOR FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: US 09/598, 042
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: US 09/552, 317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: US 09/488, 725
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 34
; LENGTH: 2135
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-747-835A-34

Query Match 52.9%; Score 536.6; DB 10; Length 2735;
Best Local Similarity 73.5%; Pred. No. 2.1e-164; Mismatches 0;保守型匹配数 254; Indels 2; Gaps 2;

RESULT 14
US-09-864-761-3057/C
; Sequence 3057, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEAR ACID PROBES USEFUL FOR
; FILE REFERENCE: Aeomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864, 761

QY 211 AGACTGCAAGCCCC-TGACTCTCTCCACACTCTGGGGTGTGACATGCCAT 269
Db 1491 AGACTCCACACCCCACTGACTCTCTCCACACTCTGGGGTGTGACATGCCAT 1550
QY 270 GCTGCAACACGGTGCCCGGATGCTGGTGAACCTCTGCATCCAGCCATCTC 329
Db 1551 GCTGCAACACAGTGCCTCAGATGCTGGTGAACCTCTGCATCCAGCCAGCCATCTC 1610
QY 330 TTTCGGGGCCGCTGATCAGACCTTCTGTTTCACTTGTGCTGACATGTC 389
Db 1611 TTTCCTGGCTGCAATGACTAGACCTTCTCTTGTGAGTTGACATGTC 1670
QY 390 CTCTCTGGGGTGTGATGCTCTATGTCAGTGTGCGCCATCTGCCACCCCCTCGCGATATTG 449
Db 1671 CTGTTGGTGTGATGTCAGTCAGTCAGTCAGTCAGTCAGTCAGATGTC 1730
QY 450 GCCATCAGACCTGGAGGTGTCATCACCTCTGCGGACTTCCTGCTGACATGTC 509
Db 1731 ATCATCATGACCTGGAGAATGTCATCACCTCTGCGGATCACTCTGCGCATCTGCGATCATGTC 1790
QY 510 CTTCATCTGTTGATGTCATCTGTTGTCACCTTCACCTGTTGAGCCAGAAA 569
Db 1791 CTCTCTGGCTATGGTCAGTGAGCTTCATCCCTAAGACTGCCTTGTGGCCCTGTGAA 1850
QY 570 ATTATCACTTTCCTGTAATCTGCTGTTCTCAACTCTGCTGAGTACCCA 629
Db 1851 ATCACCC-TCTCTCTGAACTCCCTCTCCCTCAGGTTGCTGACCTTG 1909
QY 630 CTCATGAGACATGGCTTGGCGGGCAATTCTGGGTTGGGACCTTGTCCAC 689
Db 1910 GCTCACCACTGGTCATCTTCAGCCCTGGCTGCACTCTGGGGACACTGTGCT 1969
QY 690 AATGTTGAGTTCAATAGTGTCTCTGCTATCTTCAGATCACTAACAGGAAT 749
Db 1970 GGTGCTGCTCTCTACTACACATCCTGGCGGCATCTGGAGATCAGTGTGGAGGG 2029
QY 750 TCAGAGGAAGCCCTTCACCCGCTTCTCCACCTCTGTTGATGGACCTTTATGG 809
Db 2030 CCGCAGANAGCCCTTCACCCGCTTCTCCACCTCTGTTGATGGACCTTTATGG 2089
QY 810 CACGCCATTATCAGTGTGAGGACCCAGATGGGAACCCAAGGAGAGAAATA 869
Db 2090 CAGGCCATCGTCATGTCATGGCCCTTAAGTCCGCACTCTGGAGGAGAGGT 2149
QY 870 TCTCTGCTGTTACACCTCTTAATCCCTGTCATCCCTTATCTGAGCTTAG 929
Db 2150 CCTTTCTTCTTATGGTCACTGCTTCACCGATGCTAACCCCTGATTACACTG 2209
QY 930 GAACTCAGAGTGAGAATACTTGAAGAGTGCTGGAGTAGAAAGGCTTATGAA 989
Db 2210 GAATGAGGTCAAGGTCAGGGTGGCTGAGGAGGACTGTGCAAGGAAGTCTTCAGA 2269
QY 990 AGGATA 996
Db 2270 GGTGTA 2276

CURRENT FILING DATE: 2001-05-23
 PRIORITY APPLICATION NUMBER: US 60/180, 312
 PRIORITY FILING DATE: 2000-02-04
 PRIORITY APPLICATION NUMBER: US 60/207, 456
 PRIORITY FILING DATE: 2000-05-26
 PRIORITY APPLICATION NUMBER: US 09/632, 366
 PRIORITY FILING DATE: 2000-08-03
 PRIORITY APPLICATION NUMBER: GB 24263, 6
 PRIORITY FILING DATE: 2000-10-04
 PRIORITY APPLICATION NUMBER: US 60/236, 359
 PRIORITY FILING DATE: 2000-09-27
 PRIORITY APPLICATION NUMBER: PCT/US01/00666
 PRIORITY FILING DATE: 2001-01-30
 PRIORITY APPLICATION NUMBER: PCT/US01/00667
 PRIORITY FILING DATE: 2001-01-30
 PRIORITY APPLICATION NUMBER: PCT/US01/00664
 PRIORITY FILING DATE: 2001-01-30
 PRIORITY APPLICATION NUMBER: PCT/US01/00669
 PRIORITY FILING DATE: 2001-01-30
 PRIORITY APPLICATION NUMBER: PCT/US01/00665
 PRIORITY FILING DATE: 2001-01-30
 PRIORITY APPLICATION NUMBER: PCT/US01/00668
 PRIORITY FILING DATE: 2001-01-30
 PRIORITY APPLICATION NUMBER: PCT/US01/00663
 PRIORITY FILING DATE: 2001-01-30
 PRIORITY APPLICATION NUMBER: PCT/US01/00662
 PRIORITY FILING DATE: 2001-01-30
 PRIORITY APPLICATION NUMBER: PCT/US01/00661
 PRIORITY FILING DATE: 2001-01-30
 PRIORITY APPLICATION NUMBER: PCT/US01/00670
 PRIORITY FILING DATE: 2001-01-30
 PRIORITY APPLICATION NUMBER: US 60/234, 687
 PRIORITY FILING DATE: 2000-07-21
 PRIORITY APPLICATION NUMBER: US 09/608, 408
 PRIORITY FILING DATE: 2000-06-30
 PRIORITY APPLICATION NUMBER: US 09/774, 203
 PRIORITY FILING DATE: 2001-01-29
 NUMBER OF SEQ ID NOS: 49117
 SOFTWARE: Annonax Sequence Listing Engine vers. 1.1
 SEQ ID NO: 30527
 LENGTH: 933
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 OTHER INFORMATION: MAP TO AC004889.1
 OTHER INFORMATION: EXPRESSED IN HEK293, SIGNAL = 1
 OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.1
 OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 0.93
 OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1
 OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1
 OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.3
 OTHER INFORMATION: SWISSPROT HIT: P34984, EVALUE 1.00e-86
 OTHER INFORMATION: EST_HUMAN HIT: BFL1615.1, EVALUE 0.00e+00
 OTHER INFORMATION: NT HIT: U86281.1, EVALUE 0.00e+00
 ; OS-09-864-761-30527

Query Match 52.8%; score 535.2; DB 10; Length 933;
 Best Local Similarity 74.8%; Pred. No. 3.1e-164;
 Matches 697; Conservative 0; Mismatches 233; Indels 2; Gaps 2;

QY 52 GATATGGGGCAATAAGATCCATCACAGAGTCTCTACTGGATTCCGTRGC 111
 ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db 933 GAAUTGGGGAAATCAGACATGGTCACAGAGTCTCTACTGGATTCCGGC 874
 ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 112 CCAAGGATCGATGCTCTTGGCTCTCTCGTCTAGCTCACCTCTGCG 171
 ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db 873 CCAAGGATCGATGCTCTTGGCTCTCGTCTAGCTATCTAACCTCGTG 814
 ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 172 GGGAAACGGGACATACGGGCTCATCTCACGGACTCACGCC-TGTAC 230
 ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db 813 GGGAAACGGGCACTCTGGGCTCATCTCACGGACTCACGCCATGTAC 754
 ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 QY 231 TCTTCCTCTACACCTGGCGTCGACATCGCCTACGCCAACCGTCCCCGG 290

Db 753 TTCTTCTCTCACACTGCTGTGCTGACATCCTACACCGCAACAGGTTGGCCCG 694
 QY 291 ATGCTGGTGAACCTCTGATCCAGGCCATCTTGGGGCGCATGATGCG 350
 Db 693 ATGCTGGGAACTCTGATCCAGGCCATCTGCTGCTGCTGCTGCTGCTGCTG 634
 QY 351 ACCTTCTGTTTCACTTGTCTGTCAGAATGTCCTCCCTGGTAGTGCCAT 410
 ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db 633 ACCTTCTGTTGAGTTGGACACGGAATCTGCTGCTGCTGCTGCTGCTG 574
 QY 411 GATCTGTACTGGCCATCIGCACCCCCCTCCGATATTGGCCATCATGCC 470
 ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db 573 GATCGTTACGGGCACTGCCACCTCTCGATACTCCGTCATCATGAG 514
 QY 471 TGCATACCTCGGCTGACTTCCTGAGCTTCCTTGATCATTTGATCATT 530
 ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db 453 GTTCTCATCTTAACTGCGCTCTGCTCTGCTCATGAACTAACAC 454
 QY 513 TGCATCACCCGGGCTGTCACACTTGCCCTGGAGCTGGTCTCCCTCC 590
 ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db 394 AATCCCTGCTCTCTGAGGCTGGCCACCTGCTCAACAGGTTGGCATCT 335
 QY 651 GCGCGGAGCAATTCTCGGCGTGGGACCCCTGTCACATATGCGTCAACAC 395
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db 334 TCCAGCCTGGCTGTCCTTCCTGGCCACCCGAGCTCATGAGACATGCT 650
 QY 711 CATCCCTGCTGATCTCATGATCCATCAAGGAGTCTGAGGAACTGCTG 770
 ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db 274 CATCCTGGGCCATCTGGAGATCCAGTCGGAGGCGACAGGCTGCTG 830
 QY 771 CGCTCTCTCCACCTCTGCTGATGGATGCTCTTTAGCACGCACTATCATGAT 275
 ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db 214 CTGCTCTCCACCTCTGGCTGGAGCTCTCTGCTGCGTGCATCACTGAT 155
 QY 831 TGGACCCAGATATGGGAAAGGAGCAGAGAAATATCCTCTGTTGCTGAC 890
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db 154 GGCCCCAGTCGGCCATCTGGAGGACGCAAAAGGCTTCTTCTATTTACGTT 95
 QY 891 CTTAACTCCATGCTCATCCCTTAATCTGAGTCTGAGTCTGAGAAGATAC 950
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db 94 TTTCACCCACACTTACCCCTGATGTTACGGCTGGAGGAGGGTCAGGGTC 35
 QY 951 TTGAGAGGAGTCTGGAGTAGAAGGGCTT 982
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db 34 CCTGAGGAGGACTGGCAAGAACCTT 3

RESULT 15
 US-09-747-835A-41
 ; Sequence 41, Application US/09747835A
 ; Patent No. US2002146692A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Yamazaki, Victoria
 ; APPLICANT: Tang, Y. Tom
 ; APPLICANT: Liu, Chenghua
 ; APPLICANT: Zhou, Ping
 ; APPLICANT: Wang, Dunrui
 ; APPLICANT: Zhang, Jie
 ; APPLICANT: Ren, Feiyun
 ; APPLICANT: Asundi, Vinod
 ; APPLICANT: Dianmuc, Radaje T
 ; TITLE OF INVENTION: METHODS AND MATERIALS RELATING TO G PROTEIN-COUPLED RECEPTOR-L
 ; TITLE OF INVENTION: (LIKE) POLYPEPTIDES AND POLYNUCLEOTIDES
 ; FILE REFERENCE: HYS-37CIP
 ; CURRENT APPLICATION NUMBER: US/09/747, 835A
 ; CURRENT FILING DATE: 2002-03-08
 ; PRIOR APPLICATION NUMBER: US 09/729, 739
 ; PRIOR FILING DATE: 2000-12-04

; PRIORITY APPLICATION NUMBER: US 09/653,450
 ; PRIORITY FILING DATE: 2000-08-31
 ; PRIORITY APPLICATION NUMBER: US 09/620,312
 ; PRIORITY FILING DATE: 2000-07-19
 ; PRIORITY APPLICATION NUMBER: US 09/598,042
 ; PRIORITY FILING DATE: 2000-06-20
 ; PRIORITY APPLICATION NUMBER: US 09/552,317
 ; PRIORITY FILING DATE: 2000-04-25
 ; PRIORITY APPLICATION NUMBER: US 09/488,725
 ; NUMBER OF SEQ ID NOS: 63
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO: 41
 ; LENGTH: 1782
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (405)..(1411)
 ; US-09-747-85A-41

Query Match 50.4%; score 511.4; DB 10; Length 1782;
 Best Local Similarity 72.7%; Pred. No. 2.8e-56; Matches 703; Conservative 0; Mismatches 256; Indels 8; Gaps 3;

Query	Subject
QY 31	CTTGATTCCTGCTGCTAGCATGGGACANTATAACATCCATCAGAGCTTCCC
Db 461	CTATGTGTTGTTTAGTAGTGTGAAATGGTGAAGAACAGACATGGTCAGAGITCC
QY 91	CTACTGGGATTTCGGTGGCCAAGGATTCAGATGCTCTTGGGCCTTCGCC
Db 521	CTACTGGGATTTCGGTGGCCAAGGATTCAGATGCTCTTGGGCCTTCGCC
Qy 151	TCTACGGCTCACCCGGTGGGAAGGGCAATCTGGGCTATCTGACTGGACTCC
Db 581	TCTGATATCTCACCCGGTGGGAAGGGCAATCTGGGCTATCTGACTGGACTCC
Qy 211	AGACTGCACCCCC-TGTACCTCTCTCACACCTGGGTGTCGACATGGCTAC
Db 641	AGACTCCATACCCCGTACCTCTCTCACACCTGGGTGTCGACATGGCTAC
Qy 270	GCCGCAACACCGTGGCCGGATGCTGGTGAACCTCTGCACTCCAGCCAAAGCCAACTCC
Db 701	ACCGCACACCGTGGCCAGATGCTGGGACCTCTGCACTCCAGCCAAAGCCAACTCC
Qy 330	TTGGCGGGCCGCAAGGATGCGAACCTTCTGTTTCACTTGTGTCACAGAATGTC
Db 761	TTGGCGGGCCGCAAGGATGCTGGGACCTTCTGTTTCACTTGTGTCACAGAATGTC
Qy 390	CTCTGGGGTGTGATGCTATATCTGCTACCTGGCCATCTGCCACCCCTCGATATTG
Db 821	CTGCTGGCTGTGATGCTACCTGGCCATCTGCCACCCCTCGATATTG
Qy 450	GCCATCATGACCCGGTGGAGCTGCGCATCACCCGGGTGACTTCTGGGACCCACTGGACTC
Db 881	GTCATCATGACCCGGTGGAGCTGCGCATCACCCGGGTGACTTCTGGGACCCACTGGACTC
Qy 510	CTTTATCTGTTGTTGAACTCTGCTGGCTGGGAGCAATTCTGGGTTGGGACCCCTGGTCAA
Db 935	CTCCTGGCTATGCTGGCTGGGAGCAATTCTGGGTTGGGACCCCTGGTCAA
Qy 570	ATTATCACTTTTGTGAACTCTGCTGGCTGGGAGCAATTCTGGGTTGGGACCCCTGGTCAA
Db 995	ATGAAACACATCTCTGCTGGAAATCTGGCTGGCTGGGAGCAATTCTGGGTTGGGACCCCTGGTCAA
Qy 630	CATCAATGAGAACATGGCTGGGAGCAATTCTGGGTTGGGACCCCTGGTCAA
Db 1054	GCTCAACCGGGTGGCTGGATGTCATCTGCTGGGAGCAATTCTGGGTTGGGACCCCTGGTCAA
Qy 690	AATGTTAGTTCTCATATGTGATCCCTGTCATCTGGCTGGGAGCAATTCTGGGTTGGGACCCCTGGTCAA
Db 1114	GGCTCTGGTCTCTACTCACACCTCTGGGAGCAATTCTGGGTTGGGACCCCTGGTCAA

Search completed: May 2, 2003, 06:42:32
Job time : 1681 secs

QY 750 TCGAGGAAAGCTCTGCACCTGCTCTCCACCTCTGCTGATGGACTTTATGC 809
 Db 1174 CGCCAGAGGGCTTCACCTGCTCTCCACCCPCTGGTGGACTCTCTTGG 1233
 QY 810 CACGCCATTATCATGTTGTTGGACCCAGTATGGAAACCCCAAGGAGGAGAATA 869
 Db 1234 CAGGCCATCGCATGCCCTAGTCCCACCTGAGAGAGAGAGAGAGAG 1293
 QY 870 TCTCTGGTTACAGCCCTTAATCCATGCTCAATCCCTATGTGACTCTGG 929
 Db 1294 CCTTTTGTATTTACGTCCTICACCCGATGCTAACCCCTGATTTACACCTGG 1353
 QY 930 GAACTCAGAAGATACTTGAGAGAGTGTGGAGTAGAAGGGCTTTATGAAA 989
 Db 1354 GAATGTTAGGGTCAAGGGTGCCTGAGGAGGACCTGTGCAAGGAAAGTCATTCTAAGA 1413
 QY 990 AGATTA 996
 Db 1414 GTGTGA 1420



OM of : US-09-898-586-24 to : Issued_Patents_NA: * out_format : pfs

Date: Aug 21, ' 2002 8:19 PM

About: Results were produced by the GenCore software, version 4.5,

Copyright (C) 1993-2000 Compugen Ltd.

Command line parameters:

```
-MODEL=frame+P2n,model -DEY=xlh
-Q-/cgn2_1/USTO_spool/US09898586/runat_16082002_205735-20570/app_query.fasta_1.373
-DB=issued_NA -OFMr=Fastp -SUFFIX=rni -GAPeP=12.000
-GAPEXT=4.000 -MINHATCH=0.100 -LOOPCLD=0.000 -LOOPEXT=0.000
-GAPPOP=4.500 -OGAPEXT=0.050 -XGAPOP=10.000 -XGAPEXT=0.500
-FGAPOP=6.000 -FGAPEXT=7.000 -YGAPOP=10.000 -YGAPEXT=0.500
-DELOP=6.000 -DELETE=7.000 -STAR=1 -MATRIX=blosum62
-TRANS=human40_cdi -LISI=45 -DOCALIGN=200 -THR_SCORR=pct
-THR_MAX=100 -THR_MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFILE=pfs
-NORM=ext -HEAPSIZE=51000 -MINLEN=0 -MAXLEN=2000000000
DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -NO_XLPXY -WAIT_THREADS=1
```

Search information block:

Query: us-09-898-586-24
Database: Issued_Patents_NA: *
Database sequences: 383533
Database length: 122816752
Search time (sec): 45.940000

Query length: 310

Database sequences: 383533

Database length: 122816752

Search time (sec): 45.940000

/cgn2_6/ptodata/2/ina/5B_COMB.seq:US-08-870-511-5	173.00	328.92	1.2e-10	1671
/cgn2_6/ptodata/2/ina/5A_COMB.seq:US-07-886-591-3	169.00	316.60	6.0e-10	2308
/cgn2_6/ptodata/2/ina/5A_COMB.seq:US-07-970-715-3 +	169.00	316.60	6.0e-10	2308
/cgn2_6/ptodata/2/ina/5B_COMB.seq:US-08-706-281A-15 +	165.00	312.05	1.1e-09	1571
/cgn2_6/ptodata/2/ina/5B_COMB.seq:US-09-077-231-15 +	165.00	312.05	1.1e-09	1671

seq_name: /cgn2_6/ptodata/2/ina/5B_COMB.seq:US-08-870-511-5

seq_documentation_block:

; Sequence 1, Application US/08467948A

; Patent No. 5998164

GENERAL INFORMATION:

APPLICANT: LI, YI

APPLICANT: CAO, LIANG

APPLICANT: NI, JIAN

APPLICANT: GENTZ, REINER

APPLICANT: BILT, CAROL J.

APPLICANT: SUTTON III, GRANGER G.

APPLICANT: ROSEN, CRAIG A.

TITLE OF INVENTION: Polynucleotides Encoding Human G-Protein

TITLE OF INVENTION: Coupled Receptor GPR2

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS:

ADDRESS: STEINE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

STREET: 1100 NEW YORK AVE., NW, SUITE 600

CITY: WASHINGTON

STATE: DC

COUNTRY: USA

ZIP: 20005

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK

COMPUTER: IBM PC COMPATIBLE

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PATENT RELEASE #1.0, VERSION #1.30

CURRENT APPLICATION DATE:

APPLICATION NUMBER: US/08467-948A

FILING DATE: 06-JUN-1995

CLASSIFICATION: 435

PRIORITY APPLICATION DATA:

APPLICATION NUMBER: PCT/US95/04079

FILING DATE: 30-MAR-1995

ATTORNEY/AGENT INFORMATION:

NAME: STEFFE, ERIC K.

REGISTRATION NUMBER: 36,688

REFERENCE/DOCKET NUMBER: 1488.1140003/EKS/KLM

TELECOMMUNICATION INFORMATION:

TELEPHONE: 202-371-2540

TELEFAX: 202-371-2540

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 1713 base pairs

TYPE: nucleic acid

STRANDEDNESS: both

TOPOLOGY: both

MOLECULE TYPE: cDNA

FEATURE: NAME/KEY: CDS

LOCATION: 116..1003

/cgn2_6/ptodata/2/ina/5A_COMB.seq:US-08-599-452-8A-

alignment_scores:

Quality: 1048.50

Length: 305

Ratio: 4.017

Gaps: 304

Percent Similarity: 85.574

Percent Identity: 69.180

alignment_block:

US-09-898-586-24 x US-08-467-948A-1 ..

Align seq 1/1 to: US-08-467-948A-1 from: 1 to: 1713

1 MetGlyAspAsnTleThrSerIleThrGluPheLeuLeuLeuGlyphePr 17



